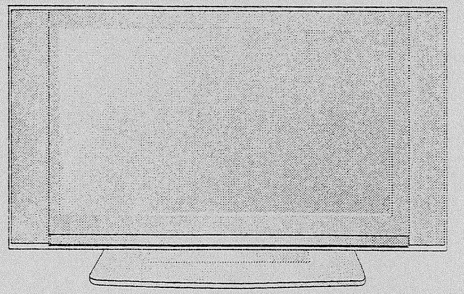
LCD TV
SERVICE MANUAL

CHASSIS : ML-041A

MODEL : RZ-32LZ55

CAUTION
BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



CONTENTS

CONTENTS 2

PRODUCT SAFETY 3

SPECIFICATION 6

ADJUSTMENT INSTRUCTION 10

TROUBLE SHOOTING 15

BLOCK DIAGRAM 20

WIRING DIAGRAM 22

EXPLODED VIEW 23

EXPLODED VIEW PARTS LIST 24

REPLACEMENT PARTS LIST 25

SVC. SHEET ....

SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Before returning the receiver to the customer,

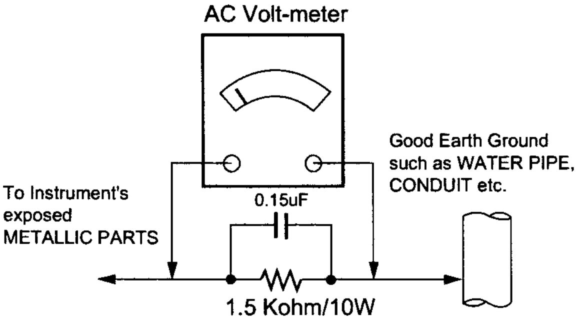
always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.
If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1MΩ and 5.2MΩ.
When the exposed metal has no return path to the chassis the reading must be infinite.
An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)
Plug the AC cord directly into the AC outlet.
Do not use a line Isolation Transformer during this check.
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.
Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.
In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit


AC Volt-meter
Good Earth Ground such as WATER PIPE, CONDUIT etc.
To Instrument's exposed METALLIC PARTS
0.15uF
1.5 Kohm/10W

SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
   a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
   b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
   CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe.
   Do not test high voltage by "drawing an arc".
3. Do not spray chemicals on or near this receiver or any of its assemblies.
4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)
   CAUTION: This is a flammable mixture.
   Unless specified otherwise in this service manual, lubrication of contacts in not required.
5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
6. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
7. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
   Always remove the test receiver ground lead last.
8. *Use with this receiver only the test fixtures specified in this service manual.*
   CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices.* Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500°F to 600°F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle.
   Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
   a. Allow the soldering iron tip to reach normal temperature. (500°F to 600°F)
   b. Heat the component lead until the solder melts.
   c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
   CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach a normal temperature (500°F to 600°F)
   b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
   CAUTION: Work quickly to avoid overheating the circuit board printed foil.
   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.
   CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.
   CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

1.General Specification(TV)

No	Item	Specification	Remark
1.	Video input applicable system	PAL-D/K, B/G, I, NTSC-M, SECAM NTSC 4.43	
2.	Receivable Broadcasting System	1) PAL/SECAM BG 2) PAL/SECAM DK 3) PAL I/I 4) SECAM L/L' 5) NTSC M	(RZ/RT) EU/Non-EU (PAL Market)
		6) PAL-N/M 7) NTSC M	6),7) South America Market 7) Except South America NTSC Market (RM)
3.	RF Input Channel	VHF : E2 ~ E12 UHF : E21 ~ E69 CATV : S1 ~ S20 HYPER : S21~ S41	PAL
		L/L' : B, C, D	FRANCE
		VHF : 2~13 UHF : 14~69 CATV : 1~125	NTSC
		VHF Low : 1 ~ M10 VHF High : 4~S22 UHF : S23~62	JAPAN
4.	Input Voltage	AC 100 ~ 240V/50Hz, 60Hz	
5.	Market	Worldwide	
6.	Picture Size	800.4 mm 813.31 mm	31.51 inch(LPL, AUO) 32.02 inch(CMO 32")
7.	Tuning System	FVS 100 program FS	PAL,200 PR.(Option) NTSC
8.	Operating Environment	1) Temp : 0 ~ 40 deg 2) Humidity : 85 % 3) Temp : 0 ~ 50 deg 4) Humidity : 85 %	1), 2) LPL 3), 4) CMO 32", AUO
9.	Storage Environment	1) Temp : -20 ~ 60 deg 2) Humidity : 85 % 3) Temp : -20 ~ 60 deg 4) Humidity : 85 %	1), 2) LPL 3), 4) CMO 32", AUO
10.	Display	LCD Module	LPL, CMO, AUO

2. General Specification

NO	Item	Specification			Unit	Remark
1	Panel	32" TFT WXGA LCD				
2	Frequency range	H : 31 ~ 61Khz V : 56 ~ 75Hz				DVI-I input
3	Control Function	1) Contrast/Brightness 2) H-Position / V-Position 3) Tracking : Clock / Phase 4) Auto Configure 5) Reset				
4	Comoponent Jack	1 : Y 3 : Pb 5 : Pr 7 : Line1 Ready 9 : LINE2 11: LINE3 13: Line3 Ready				Middle east / NTSC Area
	D4 Jack (525i,525p,750p,1125i)	2 : Y GND 4 : Pb GND 6 : Pr GND 8 : LINE1 10:Line2 Ready 12:SWITCH GND 14: SWITCH				JAPAN Only
7		H/V-Sync	Video	Power consumption		LED
	Power ON	ON/ON	Active	≤ max 170W	W	Green
	Stand by	OFF/ON	OFF	≤ 3.0W	W	Red
	DPMS Mode	ON/OFF	OFF	≤ typ. 30W	W	Green
	Power off	-	-	-	W	*.
8	LCD Module	Type Size	LPL	760 x 450 x 48	mm	(H) x (V) x (D)
			CMO	760 x 460 x 47.53		
			AUO	760 x 450 x 45		
		Pixel Pitch	LPL	0.1702 x 0.5107 x RGB	mm	
			CMO	0.1730 x 0.5190 x RGB		
			AUO	0.1702 x 0.5107 x RGB		
		Pixel Format	1366 horiz. By 768 vert. Pixels RGB strip arrangement			
		Coating	Hard coating(3H), Anti-glare treatment of the front polarizer,			
		Back Light	LPL	20EEFL		
			CMO, AUO	16EEFL		
			LPL(SPEC UP)	18EEFL		

3. Optical Feature(LCD Module)

No	Item	Specification							Remark
					LPL	CMO	AUO	LPL(SPEC UP)	
1	Viewing Angle <CR ≥10>	R/L, U/D			176,176	176,176<CR ≥20>	170,170	178, 178	
2	Luminance	Luminance (cd/m2)			500	550	500	500	Typical
		Variation			1.3				MAX / MIN
3	Contrast Ratio	Min/Typ			400/600	800/1000	650/800	600/800-CR 1200/1600-CR(AI)	All white / All black
4	CIE Color Coordinates	White	Xw	Typ.	0.285	0.285	0.280	0.285	
			Yw	Typ.	0.293	0.293	0.290	0.293	
		RED	Xr	Typ.	0.640	0.651	0.640	0.640	
			Yr	Typ.	0.341	0.332	0.330	0.341	
		Green	Xg	Typ.	0.287	0.269	0.270	0.287	
			Yg	Typ.	0.610	0.597	0.600	0.610	
		Blue	Xb	Typ.	0.146	0.142	0.150	0.146	
			Yb	Typ.	0.069	0.066	0.060	0.069	

1) Standard Test Condition
2) Surrounding Brightness Level : dark
3) Surrounding Temperature : 25 ± 2°C
4) Warm-Up Time : 30Min
5) Input Signal : VESA XGA 60Hz
- Contrast, Brightness : Max
- Clock / Clock Phase : Accurate adjustment

4. Feature and Function

No	Item	Specification	Remark
1.	Teletext	TOP, FLOF	Top(option)
2.	REMOCON	NEC Code	PAL/ NTSC
3.	AV Input	1	Rear(RT/RM)
4.	S-AV Input	1	Side
5.	Component input	1	SideRZ (HD),
6.	PERI TV Connector	Half SCART : 1	Rear (RZ)
7.	PERI TV Connector	Full SCART : 1	Rear (RZ)
8.	RGB Input	1	DVI
9.	RS-232	1	D-sub 9 pin (RM)
10.	Discrete IR	1	(RM)
11.	D-Sub Audio Input	1	Stereo
12.	2 Carrier Stereo	BG, DK	
13.	NICAM Stereo	BG, I, LL'	
14.	2 Carrier Dual	BG, DK	
15.	NICAM Dual	BG, I, LL'	
16.	DW(Double Window) Mode	X	
17.	MW(Multi Window) Mode	X	
18.	Film Mode	0	
19.	Noise Reduction	X	
20.	Progressive Scan	0	
21.	Motion Detection	0	
22.	SRS WOW	X	
23.	Swivel Speaker	X	
24	Ez-pip	X	
25	Local key	Pr+/-, vol+/-, ok, menu, tv/av, power	

5. Component Video Input(Y, PB, PR)

No	Specification				Proposed
	Resolution	H-freq(kHz)	V-freq(Hz)		
1.	640x480	15.73	60	SDTV, DVD 480i	RZ, RT, RM
2.	640x480	15.63	59.94	SDTV, DVD 480i	RZ, RT, RM
3.	704x480	31.47	59.94	EDTV 480p	RT, RM
4.	720x576	15.625	50.00	SDTV, DVD 625 Line	RZ, RT
5.	720x576	31.25	50.00	HDTV 576p	RT, RZ
6.	1280x720	45.00	60.00	HDTV 720p	RT, RM, RZ
7.	1280x720	44.96	59.94	HDTV 720p	RT, RM, RZ
8.	1280x720	37.5	50.00	HDTV 720p 50HZ	RT, RZ
9.	1920x1080	31.25 -> 28.125	50.00	HDTV 1080i 50Hz (Only AU)	RT, RZ
10.	1920x1080	33.75	60.00	HDTV 1080i 60Hz (ATSC)	RT, RM, RZ
11.	1920x1080	33.72	59.94	HDTV 1080i 59.94Hz	RT, RM, RZ

Input Side Comp 480i(RZ, RT, RM), 576I(RZ, RT), 720P_1080i(RZ55 Model Only)

6. PC Input Mode

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed
	DVI-PC, Analog RGB, Digital RGB				
1	640x480	31.469	59.94	25.17	VESA(VGA)
2	800x600	37.879	60.31	40.00	VESA(SVGA)
3	1024x768	48.363	60.00	65.00	VESA(XGA)
4	1280x768	47.693	60.00	80.125	VESA(WXGA)
5	1280x768	47.649	59.936	84.625	VESA(WXGA)
6	1280x720	45.00	60.00	74.375	HDCP DVI Digital 720p (RM only)
7	1920x1080	33.75	60.00	86.375	HDCP DVI Digital 1080i(RM only)

ADJUSTMENT INSTRUCTION

1. Application

This document is applied to 23", 26", 32" Wide LCD TV which is manufactured in Monitor Factory or is produced on the basis of this data.

2. Designation

2.1 The adjustment is according to the order which is designated and which must be followed, according to the plan which can be changed only on agreeing.

2.2 Power Adjustment : Free Voltage

2.3 Magnetic Field Condition: Nil.

2.4 Input signal Unit : Product specification standard

2.5 Reserve after operation : Above 2 hours

2.6 Adjustment equipments : Pattern Generator (MSPG925F), DDC Adjustment Jig equipment HDCP Adjustment Jig equipment.

3. Adjustments

3.1 Adjustment Details

The machine can be adjusted by itself automatically with factory automatic equipment, in case error occurs, set manual adjustment to standard.

3.2 Adjustment signal Composition of The Auto Adjustment equipment

3.2.1 RS-232C Interchange

9600bps, Pin#2 : Rx, Pin#3 : Tx, 8bit, STOP bit=1, No Parity

3.2.2 Adjust data save

Save the adjusted data to the EEPROM with default value

ai - 0 - 00

3.2.3 Adjust OK

ak - 0 - 00

3.2.4 Screen Adjustment Instruction Forms

CMD1 CMD2 SetID(0) Value

a. CMD1,CMD2 : Instructions operated by Monitor

b. SetID L 0h Set always 0 in Adjustment

VALUE : Adjustment Value

3.2.5 Screen Adjustment Instructions

	Adjustment Content	CMD(ASCII)	VALUE(hex)	Detail Explanation
1	Mode Select	Kb	10,20,30,40,50	10 : RF(TV) 20: AV1 30 : S-Video 40 : Component 50 : PC
2	Sub Brightness	Ah	00 ~ 0X64	
3	Sub Contrast	Ag	00 ~ 0X64	
4	R _ Offset Adjustment	Aa	00 ~ 7f	
5	G _ Offset Adjustment	Ab	00 ~ 7f	
6	B _ Off\set Adjustment	Ac	00 ~ 7f	
7	R _ Gain Adjustment	Ad	00 ~ ff	
8	G _ Gain Adjustment	Ae	00 ~ ff	
9	B _ Gain Adjustment	Af	00 ~ ff	The data which is adjusted store
10	Adjust Data Save	ai	00	The signal Adjustment was
11	Adjust OK	ak	00	completed

3.3 PC signal Gain/Offset Adjustment (Execute first of all in adjustment process)

3.3.1 Adjustment Preparation

- Execution of RF no signal during Heat Run over 30min
- Pattern generator signal is connected to the DVI-I Jack of LCD TV.

3.3.2 Auto Gain/Offset Adjustment (Input signal Level : 730mV)

- To use Pattern Generator(MSPG925FS), Apply Model 37, Patten 19 (XGA(1024 X 768)60Hz, white/black top and bottom pattern signal (Don't apply 16 gray signal)
- Press IN-START Key by using the Remote Controller (SVC) , after converting to Adjustment-Mode, press VOL+ Key consecutively in Auto-Gain Menu.
- After adjustment is complete, pressing enter key, stores and completes the process.

3.4 Video signal Gain/Offset Adjustment(Auto adjustment)

- Execution of RF no signal during Heat Run over 30min
- Connect to the LCD TV SCART input terminal with Patten Generator(MSPG-925FS)
- Convert INPUT MODE to S-Video or AV1.
- Connect RS-232C Communication Cable to the Auto Adjustment Equipment and SET's upgrade Port.

3.4.1 Low Gray Adjustment

- Apply Gray-Level(Model : 202 PAL_BDGH, pattern : 59) signal by using Pattern Generator(MSPG-925FS)
- Check weather color-coordinates(x : 0.283, y : 0.298, ±0.005) is operated by using CA-110 equipment
- If color-coordinates is not in Spec, adjust color-coordinates(x : 0.283, y : 0.298, ±0.005) by adjusting Red Offset.

3.4.2 White Balance Adjustment

- Apply 95% White (Model : 202 PAL_BDGH, pattern : 47, luminance spec : 250cd/m^2 over) signal by using Patten Generator(MSPG925FS)
- Check whether color-coordinates(x : 0.283, y : 0.298, ±0.005) is operated by using CA-110 equipment
- If color-coordinates is not in Spec, adjust color-coordinates(x : 0.283, y : 0.298, ±0.005) by adjusting Red Gain, Blue Gain
- All adjustment takes color-coordinates with based on G, changing R and B. If it is not adjusted, adjust with fixed B, changing G and R.

3.5 Component signal Gain/Offset Adjustment (Auto adjustment) -

- Execution of RF no signal during Heat Run over 30min
- Connect to the LCD TV Component1 terminal with Patten Generator(MSPG-925FS)
- Convert INPUT MODE to Component1.
- Connect RS-232C Communication Cable to the Auto Adjustment Equipment and SET's upgrade Port

3.6.1 Low Gray Adjustment

- Apply Gray-Level(Model : 210 576i, pattern : 59) signal by using Patten Generator(MSPG925FS)
- Check whether color-coordinates(x : 0.283, y : 0.298, ±0.005) is operated by using CA-110 equipment
- If color-coordinates is not in Spec, adjust color-coordinates(x : 0.283, y : 0.298, ±0.005) by adjusting Red Offset.

3.6.2 White Balance Adjustment

- Apply 95% White(Model : 210 576i, pattern : 47, luminance spec : 250cd/m^2 over) signal by using Patten Generator(MSPG925FS)
- Check whether color-coordinates(x : 0.283, y : 0.298, ±0.005) is operated by using CA-110 equipment
- If color-coordinates is not in Spec, adjust color-coordinates(x : 0.283, y : 0.298, ±0.005) by adjusting Red Gain, Blue Gain
- All adjustment takes color-coordinates with based on G, changing R and B. If it is not adjusted, adjust with fixed B, changing G and R.

4. EDID(The Extended Display Identification Data) SETTING

- Connect D-Sub to DVI-I Cable to DVI-I Jack.
- Input analog signal and check pc video in the screen.
- After appearing the pc video, write Analog EDID data.
- Connect DVI D Cable to DVI Jack..
- Input digital signal and check pc video in the screen.
- After appearing the pc video, write digital EDID data.

<DDC DATA Analog Set>

00	FF	FF	FF	FF	FF	FF	00	1E	6D	45	75	01	01	01	01
00	0E	01	03	01	40	26	78	08	B1	DA	A1	56	48	98	24
13	48	4B	A1	08	00	31	40	01	01	01	01	45	40	01	01
61	40	81	80	01	01	4E	1F	00	90	51	00	1B	30	40	88
13	00	A2	0B	32	00	00	18	1B	21	50	A0	51	00	1E	30
48	88	35	00	A2	0B	32	00	00	1C	00	00	00	FD	00	3B
3D	1F	30	09	00	0A	20	20	20	20	20	20	00	00	00	FC
00	52	5A	33	32	4C	5A	35	35	0A	20	20	20	20	00	DB

<DDC DATA Digital Set>

00	FF	FF	FF	FF	FF	FF	00	1E	6D	46	75	01	01	01	01
00	0E	01	03	81	40	26	78	08	B1	DA	A1	56	48	98	24
13	48	4B	A1	08	00	31	40	01	01	01	01	45	40	01	01
61	40	81	80	01	01	4E	1F	00	90	51	00	1B	30	40	88
13	00	A2	0B	32	00	00	18	1B	21	50	A0	51	00	1E	30
48	88	35	00	A2	0B	32	00	00	1C	00	00	00	FD	00	3B
3D	1F	30	09	00	0A	20	20	20	20	20	20	00	00	00	FC
00	52	5A	33	32	4C	5A	35	35	0A	20	20	20	20	00	5A

5. Shipping Conditions

No	Item			Condition	Remark
1	Power			Off	
2	Volume Level			30	
3	Main Picture Input			TV	
4	Main Last Channel			Pr 01	
5	Mute			Off	
6	ARC			16 : 9	
7	Station	Auto Program			
		Manual Program			
		Program Edit			
		Favorite Program		None	
8	Picture	PSM		Dynamic	
		Dynamic	Contrast	80	
			Brightness	40	
			Colour	70	
			Sharpness	70	
			Tint	0	NTSC OPTION
9	Sound	SSM		Flat	
		AVL		Off	
		Balance		0	
10	Special	Input		TV	
		Child Lock		Off	
		Auto sleep		Off	
		Language		English(Area Management)	
11	PC	H-Position		Variable by each mode	
		V-Position			
		Clock			
		Phase			
		Auto Configure			

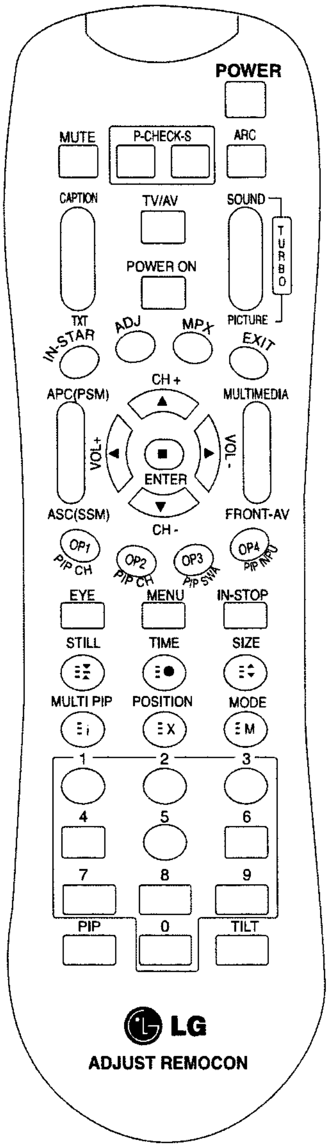
OPTION DATA SETTING(PAL)

No	Item	Condition	Remark
Option1			
1	SideAV	1	0 : SideAV Off 1 : SideAV On
2	SCART	1	0 : SCART Off 1 : SCART On
3	PC	1	0 : PC Off 1 : PC On
4	SideComp	1	0 :SideComp Off 1 :SideComp ON
5	16:9	1	0 : Wide OFF 1 : Wide On
6	200PR	0	0 : 100 Program 1 : 200 Program
7	Text	1	0 : Text Off 1 : Text On
8	ACMS	1	0 : ACMS On 1 : ACMS Off
Option2			
1	HiDev	0	0 : HiDev Off 1 : HiDev On
2	Hotel	0	0 : Hotel Off 1 : Hotel On
3	Top	1	0 : Top OFF 1 : Top ON
4	I II SAVE	1	0 : Ch. Sound Non Memory 1 : Ch. Sound Memory
5	Turbo Vol	0	0 : except below area(Off) 1 : Middle-East Area Vol On
6	Ch/Aus	0	0 : except below area(Off) 1 : China, Australia On

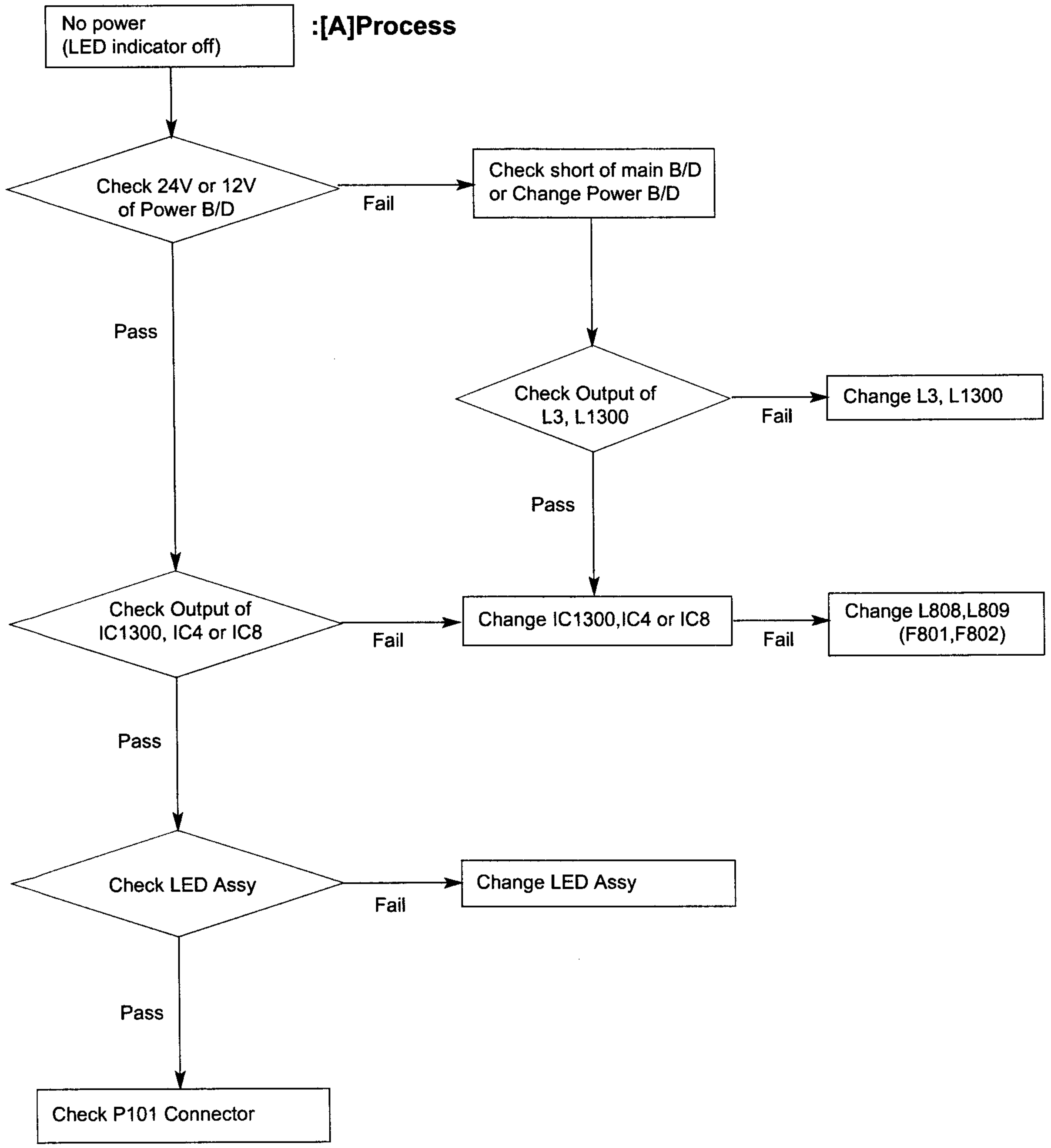
Option3			
1	Language	1	0 : Eng Only 1 : EU5 2 : 12 nations (Europe) 3 : Eng + Chinese 4 : Eng + Arab + Urdu 5 : Eng + FARSI
2	Txt Lang	0	0 : WEST EU 1 : EAST EU1 2 : TURKY EU 3 : EAST EU2 4 : CYRILLIC1 5 : CYRILLIC2 6 : CYRILLIC3 7 : TURK GRE1 8 : TURK GRE2 9 : TURK GRE3 10 :ARAB FRAN 11 :ARAB ENG 12 :ARAB HEB1 13 :ARAB HEB2 14 :FARSI ENG 15 :FARSI FRA 16 :FARI ALL
3	Inch opt	0	reserved
4	DDCi	Analog	Analog : Analog Digital : Digital

SVC REMOCON

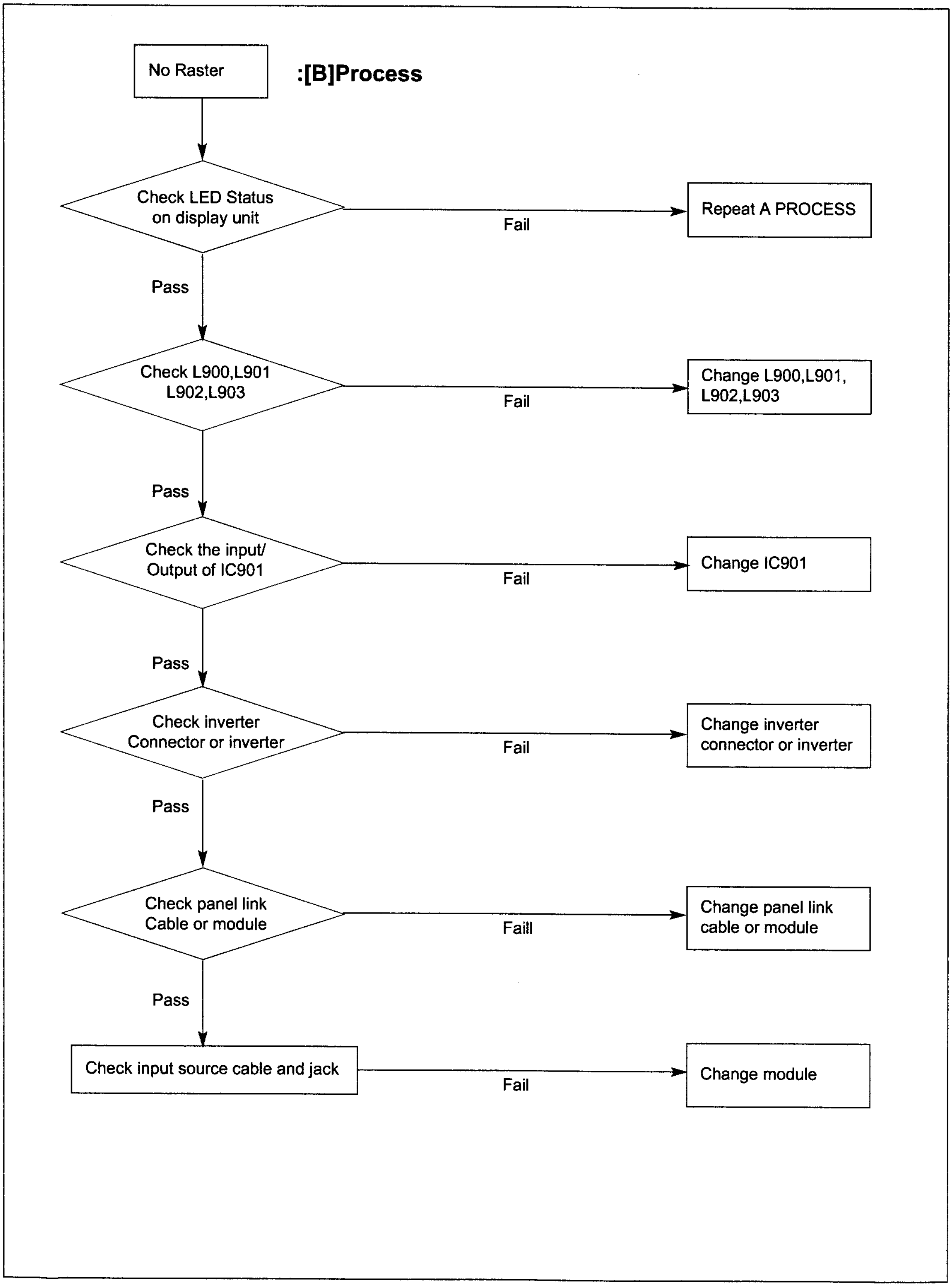
NO	KEY	FUNTION	REAMARK
1	POWER	To turn the TV on or off	
2	POWER ON	To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered.	
3	MUTE	To activate the mute function.	
4	P-CHECK	To check TV screen image easily.	Shortcut keys
5	S-CHECK	To check TV screen sound easily	Shortcut keys
6	ARC	To select size of the main screen (Normal, Spectacle, Wide or Zoom)	Shortcut keys
7	CAPTION	Switch to closed caption broadcasting	
8	TXT	To toggle on/off the teletext mode	
9	TV/AV	To select an external input for the TV screen	
10	TURBO SOUND	To start turbo sound	
11	TURBO PICTURE	To start turbo picture	
12	IN-START	To enter adjustment mode when manufacturing the TV sets. To adjust the screen voltage (automatic): In-start → mute → Adjust → AV(Enter into W/B adjustment mode) W/B adjustment (automatic): After adjusting the screen → W/B adjustment → Exit two times (Adjustment completed)	Use the AV key to enter the screen W/B adjustment mode.
13	ADJ	To enter into the adjustment mode. To adjust horizontal line and sub-brightness.	
14	MPX	To select the multiple sound mode (Mono, Stereo or Foreign language)	
15	EXIT	To release the adjustment mode	
16	APC(PSM)	To easily adjust the screen according to surrounding brightness	
17	ASC(SSM)	To easily adjust sound according to the program type	
18	MULTIMIDIA	To check component input	Shortcut keys
19	FRONT-AV	To check the front AV	Shortcut keys
20	CH±	To move channel up/down or to select a function displayed on the screen.	
21	VOL±	To adjust the volume or accurately control a specific function.	
22	ENTER	To set a specific function or complete setting.	
23	PIP CH-(OP1)	To move the channel down in the PIP screen. To use as a red key in the teletext mode	
24	PIP CH+(OP2)	To move the channel in the PIP screen To use as a green key in the teletext mode	
25	PIP SWAP(OP3)	To switch between the main and sub screens To use as a yellow key in the teletext mode	
26	PIP INPUT(OP4)	To select the input status in the PIP screen To use as a blue key in the teletext mode	
27	EYE	To set a function that will automatically adjust screen status to match the surrounding brightness so natural color can be displayed.	
28	MENU	To select the functions such as video, voice, function or channel.	
29	IN-STOP	To set the delivery condition status after manufacturing the TV set.	
30	STILL	To halt the main screen in the normal mode, or the sub screen at the PIP screen. Used as a hold key in the teletext mode (Page updating is stopped.)	
31	TIME	Displays the teletext time in the normal mode Enables to select the sub code in the teletext mode	
32	SIZE	Used as the size key in the PIP screen in the normal mode Used as the size key in the teletext mode	
33	MULTI PIP	Used as the index key in the teletext mode (Top index will be displayed if it is the top text.)	
34	POSITION	To select the position of the PIP screen in the normal mode Used as the update key in the teletext mode (Text will be displayed if the current page is updated.)	
35	MODE	Used as Mode in the teletext mode	
36	PIP	To select the simultaneous screen	
37	TILT	To adjust screen tilt	Shortcut keys
38	0~9	To manually select the channel.	

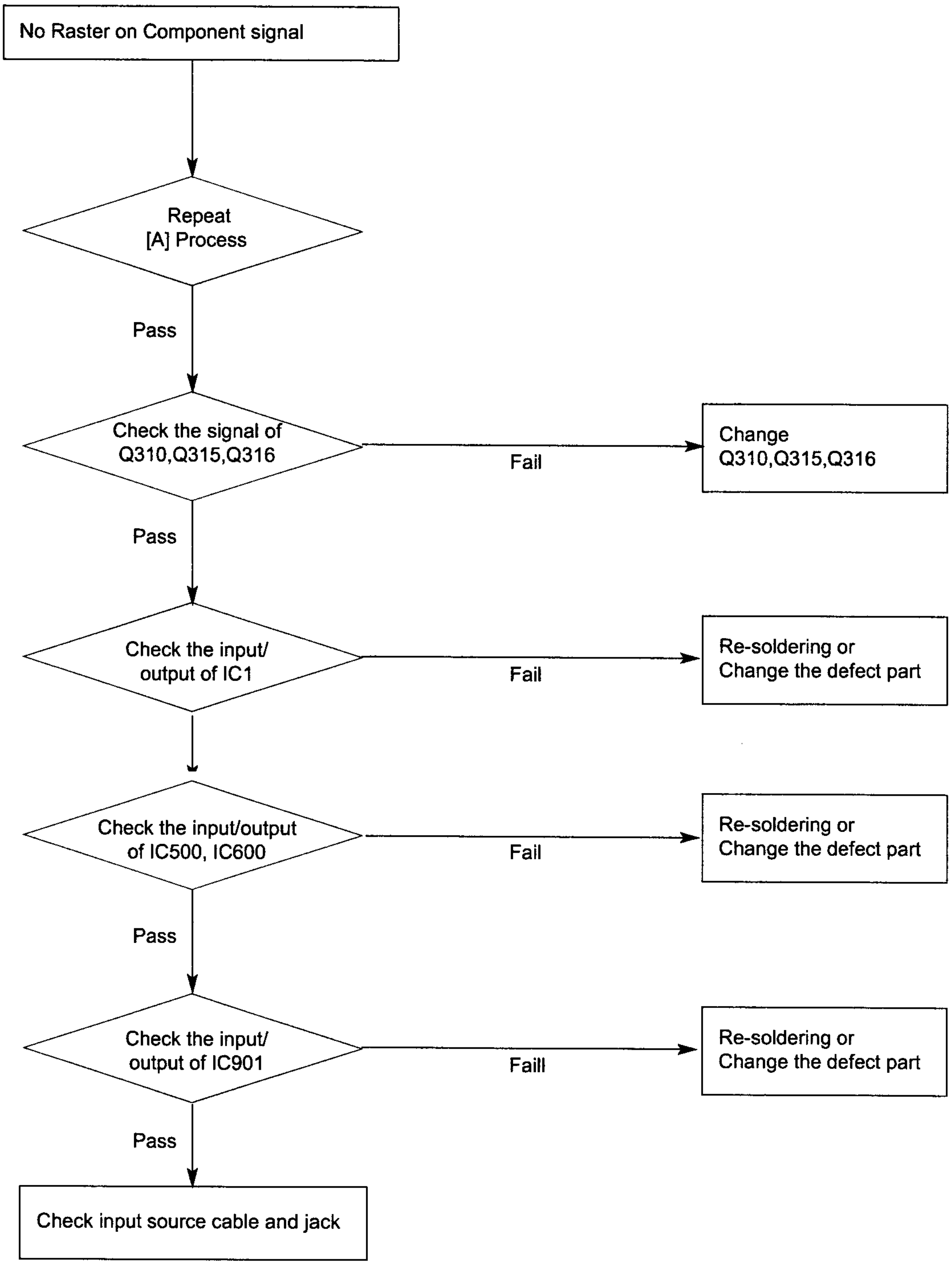


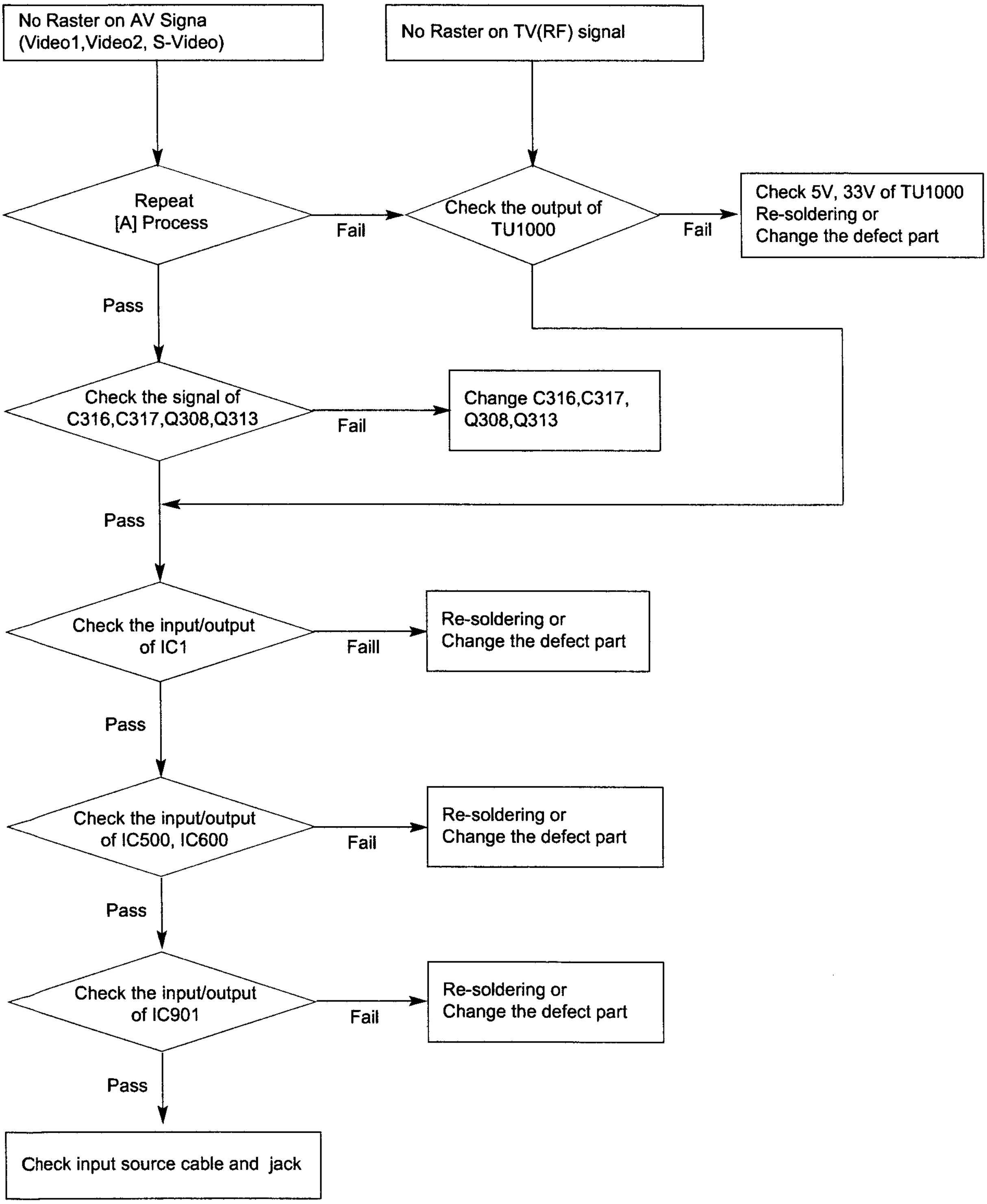
TROUBLESHOOTING

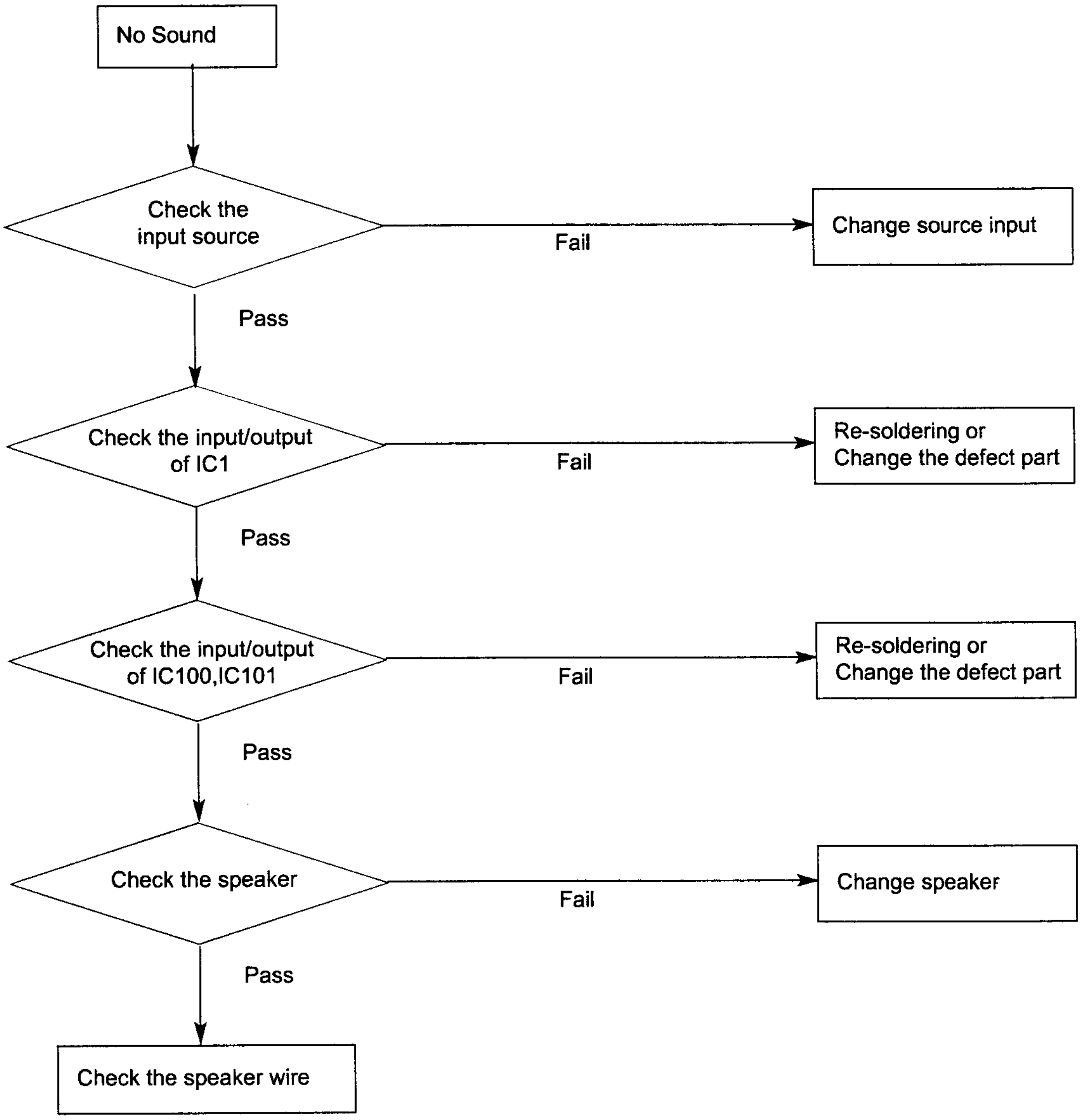

No power
(LED indicator off)
:[A]Process
Check 24V or 12V of Power B/D
Fail
Check short of main B/D or Change Power B/D
Pass
Check Output of L3, L1300
Fail
Change L3, L1300
Pass
Check Output of IC1300, IC4 or IC8
Fail
Change IC1300,IC4 or IC8
Fail
Change L808,L809 (F801,F802)
Pass
Check LED Assy
Fail
Change LED Assy
Pass
Check P101 Connector

:[B]Process

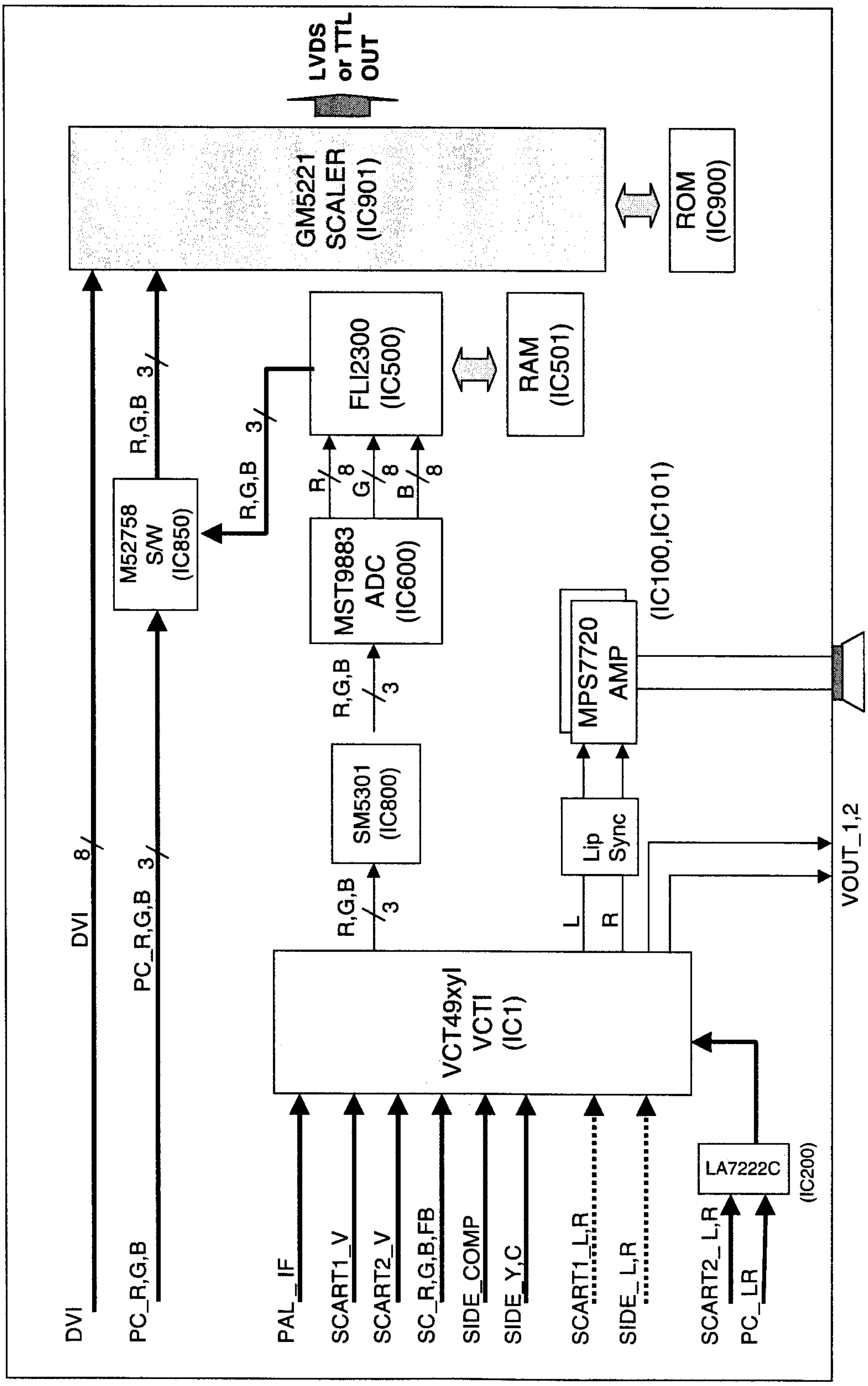

No Raster
Check LED Status on display unit
Fail
Repeat A PROCESS
Pass
Check L900,L901 L902,L903
Fail
Change L900,L901, L902,L903
Pass
Check the input/ Output of IC901
Fail
Change IC901
Pass
Check inverter Connector or inverter
Fail
Change inverter connector or inverter
Pass
Check panel link Cable or module
Faill
Change panel link cable or module
Pass
Check input source cable and jack
Fail
Change module


No Raster on Component signal
Repeat
[A] Process
Pass
Check the signal of
Q310,Q315,Q316
Fail
Change
Q310,Q315,Q316
Pass
Check the input/
output of IC1
Fail
Re-soldering or
Change the defect part
Check the input/output
of IC500, IC600
Fail
Re-soldering or
Change the defect part
Pass
Check the input/
output of IC901
Faill
Re-soldering or
Change the defect part
Pass
Check input source cable and jack


No Raster on AV Signa
(Video1,Video2, S-Video)
No Raster on TV(RF) signal
Repeat
[A] Process
Fail
Check the output of
TU1000
Fail
Check 5V, 33V of TU1000
Re-soldering or
Change the defect part
Pass
Check the signal of
C316,C317,Q308,Q313
Fail
Change C316,C317,
Q308,Q313
Pass
Check the input/output
of IC1
Faill
Re-soldering or
Change the defect part
Pass
Check the input/output
of IC500, IC600
Fail
Re-soldering or
Change the defect part
Pass
Check the input/output
of IC901
Fail
Re-soldering or
Change the defect part
Pass
Check input source cable and jack


No Sound
Check the input source
Fail
Change source input
Pass
Check the input/output of IC1
Fail
Re-soldering or Change the defect part
Pass
Check the input/output of IC100,IC101
Fail
Re-soldering or Change the defect part
Pass
Check the speaker
Fail
Change speaker
Pass
Check the speaker wire

BLOCK DIAGRAM


LVDS or TTL OUT
GM5221 SCALER (IC901)
ROM (IC900)
FLI2300 (IC500)
RAM (IC501)
R,G,B 3
R,G,B 3
M52758 S/W (IC850)
R 8
G 8
B 8
MST9883 ADC (IC600)
(IC100,IC101)
MPS7720 AMP
R,G,B 3
SM5301 (IC800)
Lip Sync
VOUT_1,2
DVI 8
PC_R,G,B 3
R,G,B 3
L
R
VCT49xyI VCTI (IC1)
LA7222C
(IC200)
DVI
PC_R,G,B
PAL_IF
SCART1_V
SCART2_V
SC_R,G,B,FB
SIDE_COMP
SIDE_Y,C
SCART1_L,R
SIDE_L,R
SCART2_L,R
PC_LR

BLOCK DIAGRAM DESCRIPTION

1. Video control and display data

Video signal is received from TUNER, AV port(AV1,AV2,S-Video,Component) and goes to the one-chip video decoder (VCTI) which separate the R,G,B signal and passes on the signal to AD converter(AD9883) which converts 4:4:4 video format into digital and gives output to the Picture Enhancer(FLI2300).This picture enhancer improves the quality of the picture by changing the level of RGB signals.The output of this enhancer chip is fed to the deinterlacer ,which in turn goes to the Scalar (GM5221).The scalar gives the output on the LVDS cable which is connected to LCD module.

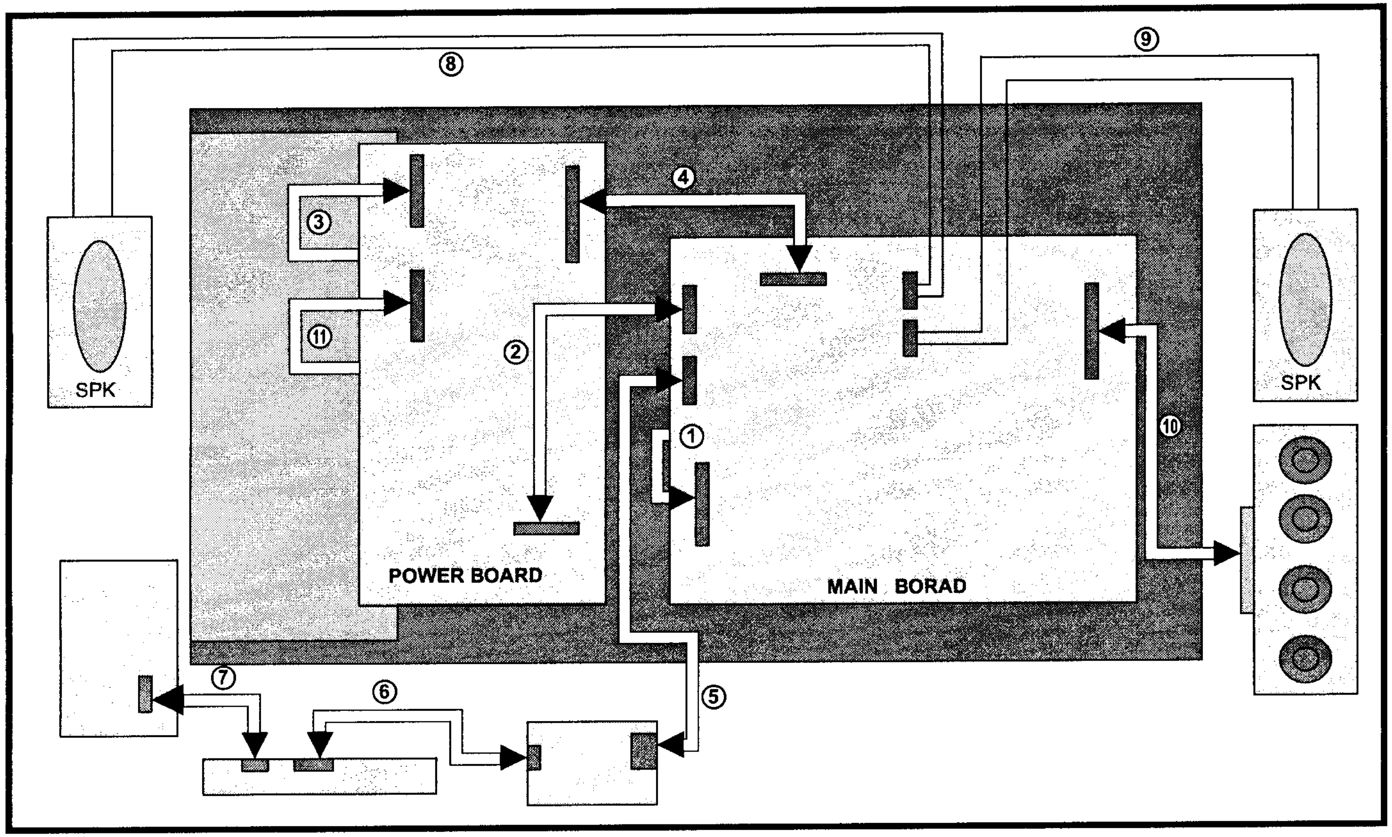
VCTi acts a micom and is responsible for video processing and audio signal processing.It accepts the RF signal and separates sound and picture from it.

Scaler is reponsible for regulating the timing of signal to LCD panel and size and location of the signal.Graphic control accepts the PC(Analog RGB) and DVI-D (Digital) signal, Scalar is reponsible for regulating the timing of signal to LCD panel and size and location of the signal.Graphic control accepts the PC(Analog RGB) and DVI-D (Digital) signal,the signal of PC input is connected to analog port in Scaler and the signal of DVI-D input is connected to digital port. Thus it receives two input and switch between them to give output at the LVDS which in turn gives output at the LCD module.

2. Power unit

The power board supplies a DC voltage of 33V, 24V, 12V to the main board.out of this 33v is used by the tuner and 24v is used directly by the inverter and the sound amplifier IC. 24v also is converted into 5v by a regulator. The 5v is changed into 3.3v and 1.8v by a regulator, both voltages(3.3v, 1.8v) is used by VCTI, Scaler, FLI2300 and AD9883. The voltage of LCD Panel is 12v.

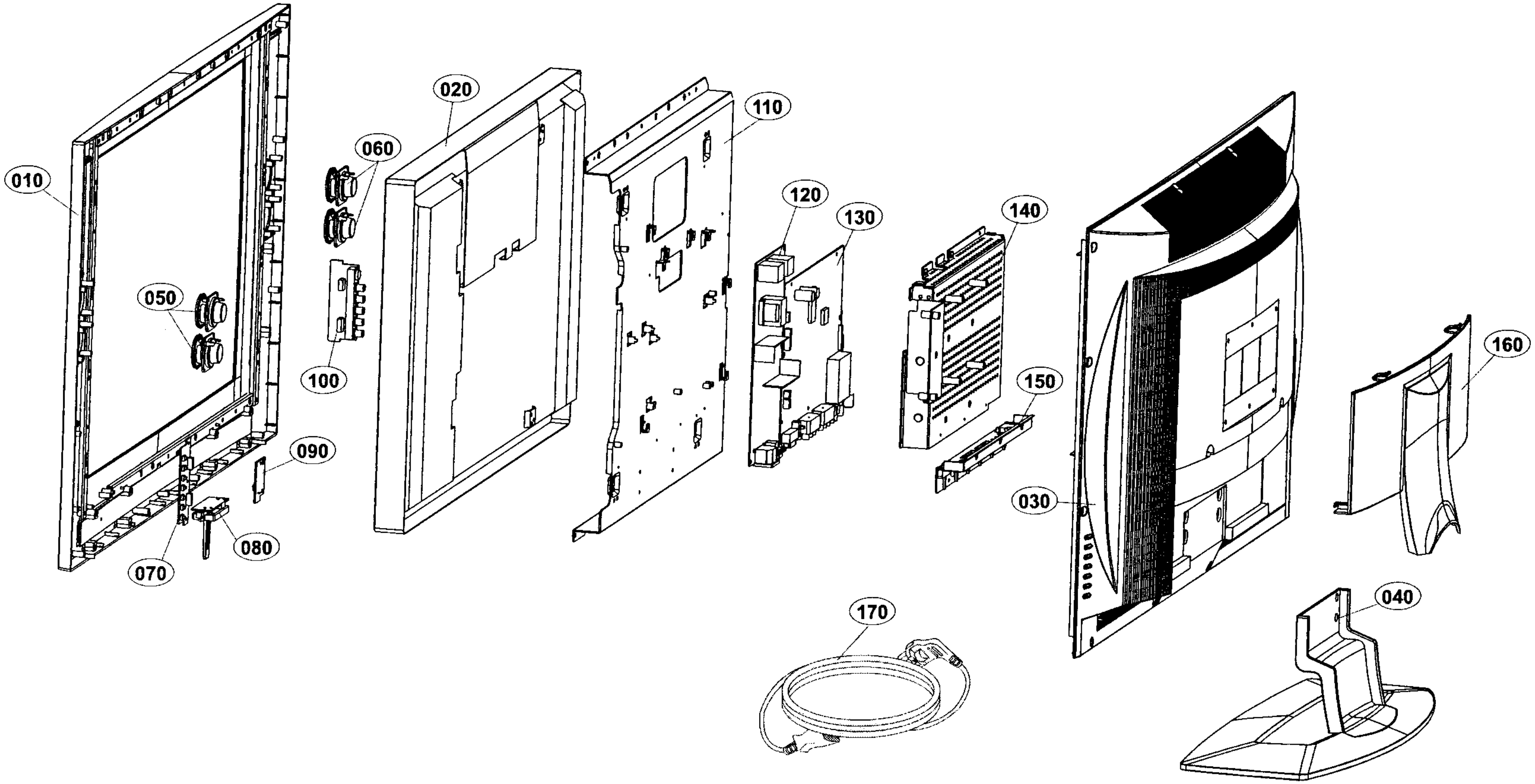
WIRING DIAGRAM


⑧
⑨
④
③
⑪
②
①
⑩
SPK
SPK
POWER BOARD
MAIN BORAD
⑦
⑥
⑤

Wiring Part List

No.	Part No.
1	6631T11020A -**LPL**
	6631T11020B -**AUO**
2	6631T20033F
3	6631T20032A
4	6631T25019K
5	6631T20033B
6	6631T20033C
7	6631T20033D
8	6631T20029Z
9	6631T20029Y
10	6631T20033E

EXPLODED VIEW


010
050
070
080
090
060
100
020
110
120
130
140
150
030
170
160
040

EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
010	3091TKE041B	CABINET ASSEMBLY, RZ-32LZ55 BRAND 3090TKE029 **CMO** MODULE(MA PHANTOM)
	3091TKE019P	CABINET ASSEMBLY, RZ-32LZ50 LGEMA PHANTOM BRAND 3090TKE014 HIPS 51SF**-LPL, AUO**
020	6304FCI011A	LCD(LIQUID CRYSTAL DISPLAY), V320B1-L01 **CHIMEI TFT COLOR** WXGA 500NITS 1000VS1 16 LAMPS
	6304FLP288A	LCD(LIQUID CRYSTAL DISPLAY), LC320W01-SL01 **LG PHILPS TFT COLOR** WXGA AIODC SPEC UP LEAD FREE
	6304FAU022A	LCD(LIQUID CRYSTAL DISPLAY), T315XW01-V5 **AU TFT COLOR** WXGA 600NITS MVA 8MS 16LAMPS
030	3809900009D	BACK COVER ASSEMBLY, RZ-32LZ55 2SCART (1080I) LGEMA PHANTOM
	3809900009C	BACK COVER ASSEMBLY, RZ-32LZ55 2SCART (1080I) NT PHANTOM**-NT LOCAL**
040	3043TKK172G	TILT SWIVEL ASSEMBLY, RZ-32LZ50 . LGEMA PHANTOM
	3043TKK172F	TILT SWIVEL ASSEMBLY, RT-32LZ50 . LGENT PHANTOM**-NT LOCAL**
050	6401TZZ042C	SPEAKER ASSEMBLY, RZ-30LZ50 5WX2EA,8OHM,ESTEC(L),5P,UL1185#24,
060	6401TZZ042D	SPEAKER ASSEMBLY, RZ-30LZ50 5WX2EA,8OHM,ESTEC(R),4P,UL1185#24
070	6871TST589D	PWB(PCB) ASSEMBLY,SUB, RZ-26LZ50 CONTROL TOTAL BRAND -LF-
080	6871TST642D	PWB(PCB) ASSEMBLY,SUB, 32LZ50 WALES SKD LED & P/SW TOTAL BRAND -LF-
	6871TST642C	PWB(PCB) ASSEMBLY,SUB, 32LZ50 LED & P/SW TOTAL BRAND -LF**-NT LOCAL**
090	6871TST588E	PWB(PCB) ASSEMBLY,SUB, RZ-30/32LZ50 IR SUB TOTAL BRAND -LF-
100	6871TVT370C	PWB(PCB) ASSEMBLY,VIDEO, RM-32/26/23LZ50 SIDE A/V SUB TOTAL BRAND LF
110	4951TKS170D	METAL ASSEMBLY, FRAME, 32LZ50 SKD
120	6871TPT275E	PWB(PCB) ASSEMBLY,POWER, RM-32LZ50 POWER TOTAL BRAND 26-32INCH PB FREE
130	33139P3010A	MAIN TOTAL ASSEMBLY, RZ-32LZ55 BRAND ML-041A**-CMO**
	33139P3009A	MAIN TOTAL ASSEMBLY, RZ-32LZ55 **LPL**(AI+ODC) BRAND ML-041A
	33139P3013A	MAIN TOTAL ASSEMBLY, RZ-32LZ55 BRAND **AUO** ML-041A
140	4951TKK169F	METAL ASSEMBLY, REAR RZ-32LZ50 LGEWA C/SKD
150	3551TKK516L	COVER ASSEMBLY, RZ-32LZ50 LGEMA PHANTOM REAR A/V ASSY PHONE
	3551TKK516B	COVER ASSEMBLY, RZ-30LZ50 REAR NON AV **C/SKD**
160	3550TKK581A	COVER, RZ-32LZ50 REAR AV
	3550TKK581B	COVER, RZ-32LZ50 REAR **SKD**
170	6410TEW001D	POWER CORD, SP027+IS14 I-SHENG SEV 1870MM WALL BLACK**-Only Swiss**
	6410TEW010A	POWER CORD, LP34A+LS60 LONGWELL VDE/SEMKO 1870MM WALL CD/PB FREE BLACK
	6410TEW011A	POWER CORD, LP22+LS60 LONGWELL IMQ 1870MM WALL CD/PB FREE BLACK**-Only Italy**
	6410TPW003A	POWER CORD, LP-33+LS-60 LONGWELL PCT 1870MM WALL CD/PB FREE BLACK**-Only Russia**
	6410TBW004A	POWER CORD, LP-61+LS-60 LONGWELL BSI 1870MM WALL CD/PB FREE BLACK**-Only U.K**

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN, CH : Ceramic
CQ : Polyestor
CE : Electrolytic
CF : Fixed Film

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RH : CHIP, Metal Glazed(Chip)
RR : Drawing

DATE: 2005. 09. 18.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
MAIN BOARD				
CAPACITOR				
		C108	0CE476EK638	47UF KMG 50V M FM5 TP 5
		C1102	0CE107CK638	"100UF SHL,SD 50V M FM5 TP 5"
		C404	0CE227EJ638	220UF KMG 35V M FM5 TP 5
		C129	181-007F	"MPE ECQ-V1H224JL3(TR), 50V"
		C130	181-007F	"MPE ECQ-V1H224JL3(TR), 50V"
		C1001	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1002	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1003	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1004	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1007	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1010	0CK273DK51A	27000PF 2012 50V 10% B(Y5P)
		C107	0CK225DFK4A	"2.2UF 2012 16V 20%,-20% F(Y"
		C109	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C11	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C110	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C113	0CK225DFK4A	"2.2UF 2012 16V 20%,-20% F(Y"
		C114	0CK225DFK4A	"2.2UF 2012 16V 20%,-20% F(Y"
		C12	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C127	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C128	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1300	0CK105DK94A	"1UF 2012 50V 80%,-20% R/TP"
		C1302	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1305	0CK105DK94A	"1UF 2012 50V 80%,-20% R/TP"
		C1307	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C135	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C136	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C15	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C16	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C18	0CK106EF56A	10UF 3216 16V 10% X7R R/TP
		C19	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C23	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C3	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C306	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C318	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C4	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C4004	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C4005	0CH3222K516	2200PF 2012 50V 10% B(Y5P)
		C4006	0CH3222K516	2200PF 2012 50V 10% B(Y5P)
		C4009	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C4010	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C4011	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C4016	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C4017	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C4019	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C4021	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C42	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C44	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C45	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C49	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C500	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C505	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C506	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2005. 09. 18.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C507	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C508	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C509	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C51	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C510	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C511	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C512	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C513	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C514	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C517	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C518	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C519	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C521	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C522	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C523	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C526	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C527	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C528	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C529	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C530	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C531	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C532	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C533	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C534	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C535	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C536	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C537	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C538	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C539	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C540	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C541	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C542	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C544	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C545	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C546	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C547	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C549	0CK105DK94A	"1UF 2012 50V 80%,-20% R/TP"
		C550	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C551	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C552	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C553	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C554	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C555	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C556	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C557	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C558	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C559	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C567	0CK105DK94A	"1UF 2012 50V 80%,-20% R/TP"
		C6	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C60	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C606	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C608	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C609	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C61	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2005. 09. 18.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C614	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C615	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C616	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C618	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C619	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C620	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C621	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C622	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C623	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C624	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C625	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C627	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C628	0CH3822K516	8200PF 2012 50V 10% B(Y5P)
		C629	0CH3823K516	82000PF 2012 50V 10% B(Y5P)
		C632	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C633	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C634	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C635	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C636	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C637	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C638	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C639	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C64	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C640	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C65	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C66	0CK106EF56A	10UF 3216 16V 10% X7R R/TP
		C67	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C700	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C704	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C705	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C75	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C751	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C76	0CK106EF56A	10UF 3216 16V 10% X7R R/TP
		C760	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C761	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C77	0CK106EF56A	10UF 3216 16V 10% X7R R/TP
		C79	0CK106EF56A	10UF 3216 16V 10% X7R R/TP
		C80	0CK106EF56A	10UF 3216 16V 10% X7R R/TP
		C804	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C808	0CK105DK94A	"1UF 2012 50V 80%,-20% R/TP"
		C809	0CK105DK94A	"1UF 2012 50V 80%,-20% R/TP"
		C81	0CK106EF56A	10UF 3216 16V 10% X7R R/TP
		C810	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C811	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C812	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C813	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C82	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C84	0CK106EF56A	10UF 3216 16V 10% X7R R/TP
		C850	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C851	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C852	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C853	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C854	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C855	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C856	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C864	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C865	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C866	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C867	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C868	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C869	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C870	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2005. 09. 18.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C90	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C908	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C909	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C910	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C911	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C912	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C913	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C914	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C915	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C916	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C917	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C918	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C919	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C92	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C920	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C921	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C922	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C923	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C926	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C927	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C928	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C929	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C930	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C931	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C935	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C936	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C937	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C938	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C939	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C940	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C941	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C942	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C943	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C944	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C945	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C946	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C947	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C948	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C949	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C950	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C951	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C952	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C958	0CK225DFK4A	"2.2UF 2012 16V 20%,-20% F(Y"
		C96	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C963	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C966	0CH3103K516	10000PF 50V 10% B(Y5P) 2012-CMO
		C967	0CH3103K516	10000PF 50V 10% B(Y5P) 2012-CMO
		C969	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C970	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C973	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C10	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C115	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C116	0CK562CK51A	5600PF 1608 50V 10% R/TP B(
		C117	0CK562CK51A	5600PF 1608 50V 10% R/TP B(
		C118	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C125	0CK105EK56A	1UF 3216 50V 10% X7R R/TP
		C126	0CK105EK56A	1UF 3216 50V 10% X7R R/TP
		C1301	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C1306	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C25	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C26	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C27	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R

DATE: 2005. 09. 18.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C28	0CK334CF94A	"0.33UF 1608 16V 80%,-20% F("
		C29	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C30	0CK334CF94A	"0.33UF 1608 16V 80%,-20% F("
		C32	0CK334CF94A	"0.33UF 1608 16V 80%,-20% F("
		C33	0CK334CF94A	"0.33UF 1608 16V 80%,-20% F("
		C34	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C35	0CK334CF94A	"0.33UF 1608 16V 80%,-20% F("
		C37	0CK334CF94A	"0.33UF 1608 16V 80%,-20% F("
		C40	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C4000	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C4014	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C4018	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C4020	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C41	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C5001	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C504	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C524	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C611	0CK473CK56A	47000PF 1608 50V 10% R/TP X
		C612	0CK473CK56A	47000PF 1608 50V 10% R/TP X
		C613	0CK473CK56A	47000PF 1608 50V 10% R/TP X
		C626	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C7	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C70	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C71	0CK106EF56A	10UF 3216 16V 10% X7R R/TP
		C72	0CK106EF56A	10UF 3216 16V 10% X7R R/TP
		C73	0CK106EF56A	10UF 3216 16V 10% X7R R/TP
		C750	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C752	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C753	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C759	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C78	0CK106EF56A	10UF 3216 16V 10% X7R R/TP
		C8	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C800	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP"
		C801	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP"
		C802	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP"
		C803	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP"
		C9	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C901	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C902	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C903	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C904	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C905	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C906	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C907	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C964	0CK105DK94A	"1UF 2012 50V 80%,-20% R/TP-CMO"
		C13	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C1303	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C1308	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C14	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C2	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C20	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C200	0CH6221K416	220PF 2012 50V 5% NP0 -
		C237	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C238	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C319	0CH6120K416	12PF 2012 50V 5% NP0 -
		C324	0CH6120K416	12PF 2012 50V 5% NP0 -
		C328	0CH6120K416	12PF 2012 50V 5% NP0 -
		C329	0CH6120K416	12PF 2012 50V 5% NP0 -
		C331	0CH6150K416	15PF 2012 50V 5% NP0 R/TP
		C336	0CH6150K416	15PF 2012 50V 5% NP0 R/TP
		C340	0CH6150K416	15PF 2012 50V 5% NP0 R/TP
		C341	0CH6150K416	15PF 2012 50V 5% NP0 R/TP

DATE: 2005. 09. 18.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C352	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C354	0CH6471K416	470PF 2012 50V 5% NP0 R/TP
		C355	0CH6471K416	470PF 2012 50V 5% NP0 R/TP
		C43	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C46	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C50	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C53	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C59	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C701	0CH6120K416	12PF 2012 50V 5% NP0 -
		C702	0CH6120K416	12PF 2012 50V 5% NP0 -
		C74	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C755	0CH6471K416	470PF 2012 50V 5% NP0 R/TP
		C756	0CH6471K416	470PF 2012 50V 5% NP0 R/TP
		C757	0CH6471K416	470PF 2012 50V 5% NP0 R/TP
		C758	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C83	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C86	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C924	0CH6080K116	8PF 2012 50V 0.5 PF C0G R/T
		C925	0CH6080K116	8PF 2012 50V 0.5 PF C0G R/T
		C968	0CH6101K416	100PF 50V 5% NP0 2012 R/TP-CMO
		C1015	0CC680CK41A	68PF 1608 50V 5% R/TP NP0
		C1016	0CC680CK41A	68PF 1608 50V 5% R/TP NP0
		C121	0CC100CK41A	10PF 1608 50V 5% R/TP NP0
		C122	0CC100CK41A	10PF 1608 50V 5% R/TP NP0
		C1500	0CC330CK41A	33PF 1608 50V 5% R/TP NP0
		C1501	0CC330CK41A	33PF 1608 50V 5% R/TP NP0
		C1502	0CC330CK41A	33PF 1608 50V 5% R/TP NP0
		C202	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C203	0CC221CK41A	220PF 1608 50V 5% R/TP NP0
		C204	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C205	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C207	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C209	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C21	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C210	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C211	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C214	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C217	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C218	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C22	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C220	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C222	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C223	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C224	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C24	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C343	0CC270CK41A	27PF 1608 50V 5% R/TP NP0
		C348	0CC270CK41A	27PF 1608 50V 5% R/TP NP0
		C353	0CC270CK41A	27PF 1608 50V 5% R/TP NP0
		C4003	0CC150CK41A	15PF 1608 50V 5% R/TP NP0
		C4007	0CC150CK41A	15PF 1608 50V 5% R/TP NP0
		C47	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C48	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C501	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C515	0CC330CK41A	33PF 1608 50V 5% R/TP NP0
		C516	0CC330CK41A	33PF 1608 50V 5% R/TP NP0
		C600	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C601	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C602	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C603	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C610	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C754	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C85	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0

DATE: 2005. 09. 18.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1006	0CE106EK638	10UF KMG 50V 20% FM5 TP 5
		C1100	0CE106BF618	10UF KME TYPE 16V 20% FL TP
		C111	0CE475EK638	4.7UF KMG 50V 20% FM5 TP 5
		C1112	0CE108EF618	1000UF KMG 16V 20% FL TP 5
		C1113	0CE108EF618	1000UF KMG 16V 20% FL TP 5
		C1114	0CE108EF618	1000UF KMG 16V 20% FL TP 5
		C1115	0CE108EF618	1000UF KMG 16V 20% FL TP 5
		C112	0CE475EK638	4.7UF KMG 50V 20% FM5 TP 5
		C119	0CE106BF618	10UF KME TYPE 16V 20% FL TP
		C120	0CE106BF618	10UF KME TYPE 16V 20% FL TP
		C1202	0CE477EJ618	470UF KMG 35V 20% FL TP 5
		C123	0CE477EJ618	470UF KMG 35V 20% FL TP 5
		C124	0CE477EJ618	470UF KMG 35V 20% FL TP 5
		C1299	0CE477EJ618	470UF KMG 35V 20% FL TP 5
		C1304	0CE477EJ618	470UF KMG 35V 20% FL TP 5
		C131	0CE477EJ618	470UF KMG 35V 20% FL TP 5
		C132	0CE477EJ618	470UF KMG 35V 20% FL TP 5
		C133	0CE477EJ618	470UF KMG 35V 20% FL TP 5
		C134	0CE477EJ618	470UF KMG 35V 20% FL TP 5
		C971	0CE107BF618	100UF KME TYPE 16V 20% FL T-CMO
		C100	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C1008	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C1503	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1504	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C17	0CH8106J691	10UF 35V 20% 105STD (CYL) R
		C206	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C208	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C219	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C221	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C225	0CH8106J691	10UF 35V 20% 105STD (CYL) R
		C226	0CH8106J691	10UF 35V 20% 105STD (CYL) R
		C227	0CH8106J691	10UF 35V 20% 105STD (CYL) R
		C228	0CH8106J691	10UF 35V 20% 105STD (CYL) R
		C235	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C236	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C300	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C301	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C302	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C303	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C304	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C307	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C308	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C309	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C312	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C313	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C314	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C315	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C316	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C317	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C4001	0CH8106J691	10UF 35V 20% 105STD (CYL) R
		C4002	0CH8106J691	10UF 35V 20% 105STD (CYL) R
		C4008	0CH8106J691	10UF 35V 20% 105STD (CYL) R
		C4012	0CH8106J691	10UF 35V 20% 105STD (CYL) R
		C4013	0CH8106J691	10UF 35V 20% 105STD (CYL) R
		C4015	0CH8106J691	10UF 35V 20% 105STD (CYL) R
		C4022	0CH8106J691	10UF 35V 20% 105STD (CYL) R
		C4023	0CH8106J691	10UF 35V 20% 105STD (CYL) R
		C4024	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C5	0CE475WJ6DC	4.7UF MVK 35V 20% R/TP(SMD)
		C502	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C503	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C52	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)

DATE: 2005. 09. 18.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C520	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C525	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C54	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C543	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C55	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C560	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C566	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C604	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C605	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C607	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C62	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C63	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C703	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C805	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C806	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C807	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C814	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C815	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C857	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C858	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C859	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C860	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C861	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C862	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C863	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C87	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C88	0CH8476H691	47UF 25V 20% 105STD (CYL) R
		C89	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C900	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C91	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C953	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C956	0CH8476H691	47UF 25V 20% 105STD (CYL) R-LPL
		C957	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C959	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C960	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP-LPL
		C962	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C965	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C97	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C972	0CH8476H691	47UF 25V 20% 105STD (CYL) R
		C974	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
DIODEs				
		D100	0DRFC00288A	SS14 FAIR CHILD R/TP SMA 20
		D101	0DRFC00288A	SS14 FAIR CHILD R/TP SMA 20
		IC751	0DRSE00018B	"SRV05-4.TCT, SEMTECH R/TP S"
		IC754	0DRSE00018B	"SRV05-4.TCT, SEMTECH R/TP S"
		ZD1300	0DR340009AA	MBRS340 TP FAIRCHILD NON 40
		ZD1301	0DR340009AA	MBRS340 TP FAIRCHILD NON 40
		ZD901	0DR340009AA	MBRS340 TP FAIRCHILD NON 40-CMO
		D107	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D711	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		D102	0DS181009AA	KDS181 TP KEC SOT-23 80V
		D103	0DS181009AA	KDS181 TP KEC SOT-23 80V
		D104	0DZ620009HB	UDZ S 6.2B TP ROHM SOD323 2
		D105	0DZ620009HB	UDZ S 6.2B TP ROHM SOD323 2
		D703	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		D704	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD101	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD215	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD216	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD217	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323

DATE: 2005. 09. 18.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		ZD218	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD219	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD220	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD222	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		D700	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		D701	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		D702	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		D705	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		D706	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD10	0DZ620009HB	UDZ S 6.2B TP ROHM SOD323 2
		ZD203	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD204	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD205	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD206	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD207	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD208	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD210	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD213	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD214	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD221	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD5001	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD5002	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD5003	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD851	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD852	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1000	0DZ330009DF	MTZJ33B TP ROHM-K DO34 0.5W
IC				
		IC501	0IMMREB010A	"M12L64322A-6T ESMT 86P,TSOP"
		IC749	0IMMRSG036A	"M24C02-WMN6T(P),LF SGS-THOM"
		IC753	0IMMRSG036A	"M24C02-WMN6T(P),LF SGS-THOM"
		IC907	0IMCRAL006A	"AT24C16AN-10SU-2.7,LF ATMEL"
		IC918	0IMCRAL006A	"AT24C16AN-10SU-2.7,LF ATMEL"
		IC100	0IMCRMZ002A	MP7720 MONOLITHIC POWER SYS
		IC101	0IMCRMZ002A	MP7720 MONOLITHIC POWER SYS
		IC500	0IMCRGN002D	"FLI2300BD-LF,PB FREE GENESI"
		IC750	0IMCRSG010A	ST3232CDR SGS-THOMSON SOP16
		IC850	0IMCRMI006B	"M52758FP,LF RENESAS 36P,SSO"
		IC1	0IPRPMN003G	"VCT49X3F-F2,LF MICRONAS 144"
		IC4002	0IPRPAK013A	"AK4525VF-E2,LF AKM 28P,VOSP"
		IC4005	0IPRPJR017A	"NJU26901E2 JRC 8P,EMP R/TP"
		IC600	0IPRPM3002D	"MST9883C-LF-110 MSTAR 80P,L"
		IC800	0IPRPNP001A	"SM5301BS(ATSC DTV) NPC 28P,"
		IC901	0IPRPGN014C	"GM5221H-BC-LF,PB FREE GENES"
		IC1300	0IPMG00063A	MP1593DN-LF-Z MONOLITHIC PO
		IC1301	0IPMG00063A	MP1593DN-LF-Z MONOLITHIC PO
		IC2	0IPMGFA061A	"FAN1587AD33X FAIRCHILD 3P,D"
		IC3	0IKE702700D	"KIA7027AF 3, SOT-89 TP RESE"
		IC300	0IPMGKE039A	"KIA78D09F KEC 3P,DPAK R/TP"
		IC4	0IPMGFA061A	"FAN1587AD33X FAIRCHILD 3P,D"
		IC4007	0IPMG00107A	AZ1117H-2.5TR/E1 AAC 3PIN S
		IC505	0IPMGSG020A	"LD1117DT18TR,LF SGS-THOMSON"
		IC6	0IPMGSG018D	LD1086DT18TR-LF SGS-THOMSON
		IC601	0IPMGK2001B	AIC1117A-33PYTR(BS33) AIC 3
		IC604	0IPMG78341A	"AZ1085S-3.3TR/E1,LF BCD 3PI"
		IC8	0IMCRFA015A	KA7805R FAIRCHILD 2P D-PAK
		IC904	0IPMG00063A	MP1593DN-LF-Z MONOLITHIC PO-CMO
		IC905	0IPMGFA061A	"FAN1587AD33X FAIRCHILD 3P,D"
		IC906	0IPMGSG018D	LD1086DT18TR-LF SGS-THOMSON
		IC103	0ISS780800J	"KA78M08R 3P,D-PAK TP VOL. R"
		IC200	0ISA722200A	LA7222 (1280 AUDIO) - - - -

DATE: 2005. 09. 18.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		IC2000	0ISTL00026A	"MC14066BDR2G,LF ON SEMI 14P"
		IC4000	0ISTLFA108A	"NC7SV125P5X FAIRCHILD 5P,SC"
		IC4003	0ISTLFA108A	"NC7SV125P5X FAIRCHILD 5P,SC"
		IC4004	0ISTLFA108A	"NC7SV125P5X FAIRCHILD 5P,SC"
		IC4006	0ISTL00021A	"SN74AHCT1G125DCKR,LF TEXAS"
		IC702	0ISTL00031A	"MC74HC4066ADR2G,LF ON SEMI"
		IC752	0IMCRTI001A	"SN74HCT157DR,LF TEXAS INST"
COIL & CORE & INDUCTOR				
		L104	6140TBZ045A	"38.5UH(DIP), 6A, P7.5, DR8."
		L105	6140TBZ045A	"38.5UH(DIP), 6A, P7.5, DR8."
		L1300	6140VR0008B	SLF12575T-150M3R2 15UH SMD
		L1301	6140VR0008B	SLF12575T-150M3R2 15UH SMD
		L906	6140VR0008B	SLF12575T-150M3R2 15UH SMD-CMO
		L100	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1002	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L3	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L301	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L302	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L304	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L311	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L4	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L401	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L5	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L500	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L501	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L502	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L503	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L504	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L505	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L600	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L601	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L602	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L701	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L800	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L850	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L900	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L901	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L902	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L903	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L202	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L203	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L204	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L205	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L207	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L208	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L209	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L210	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L4001	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L4003	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L5000	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L603	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L904	6210TCE001G	HH-1M3216-501 CERATEC 3216M-CMO
		L907	6210TCE001G	HH-1M3216-501 CERATEC 3216M-LPL
		Z1000	6200QL3001Z	B39361-X6966-D100 EPCOS ST
		L1	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		L1001	0LC1020101A	1UH 10% 2012 R/TC FI-B2012-
		L11	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		L13	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		L14	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		L15	0LC1032101A	10UH 10% 3216 R/TC FI-C3216

DATE: 2005. 09. 18.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		L17	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		L2	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		L402	0LC1532101A	15UH 10% 3216 R/TC FI-C3216
		L403	0LC1532101A	15UH 10% 3216 R/TC FI-C3216
		L7	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		L10	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		L12	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		L16	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		L200	0LC1020101A	1UH 10% 2012 R/TC FI-B2012-
		L201	0LC1020101A	1UH 10% 2012 R/TC FI-B2012-
		L306	0LC1532101A	15UH 10% 3216 R/TC FI-C3216
		L307	0LC1532101A	15UH 10% 3216 R/TC FI-C3216
		L8	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		L9	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
FET & TRANSISTOR				
		Q1000	0TR388109AA	KTC3881 CHIP TP KEC - -
		Q1101	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q212	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q300	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q302	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q303	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q304	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q318	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q701	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q100	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q101	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q12	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q13	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q14	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q15	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q16	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q17	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q301	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q305	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q306	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q308	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q310	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q313	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q315	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q316	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q317	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q500	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q901	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -LPL
		IC902	0TF492509AA	SI4925DY TP TEMIC 30V 6.1A-LPL
		IC1101	0TF492509AA	SI4925DY TP TEMIC 30V 6.1A
RESISTORs				
		RA600	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100
		RA601	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100
		RA602	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100
		RA603	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100
		RA604	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100
		RA605	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100
		C333	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		C338	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		C339	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R10	0RH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R1001	0RH0562D622	56 OHM 1 / 10 W 2012 5.00%
		R1002	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00

DATE: 2005. 09. 18.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1003	0RH8200D622	820 OHM 1 / 10 W 2012 5.00%
		R1004	0RH3000D622	300 OHM 1 / 10 W 2012 5.00%
		R1005	0RH0682D622	68 OHM 1 / 10 W 2012 5.00%
		R1010	0RH7501D622	7.5K OHM 1 / 10 W 2012 5.00
		R1011	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1012	0RH7502D622	75K OHM 1 / 10 W 2012 5.00%
		R1014	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1026	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R104	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R106	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R107	0RH1503D622	150K OHM 1 / 10 W 2012 5.00
		R11	0RH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R1100	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1102	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1105	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1106	0RH1202D622	12K OHM 1 / 10 W 2012 5.00%
		R1107	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R1116	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D-CMO
		R1290	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D-AUO
		R1291	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%-LPL
		R118	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R126	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R1301	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1304	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R132	0RH1003D622	100K OHM 1 / 10 W 2012 5.00
		R133	0RH1003D622	100K OHM 1 / 10 W 2012 5.00
		R134	0RH1003D622	100K OHM 1 / 10 W 2012 5.00
		R135	0RH1003D622	100K OHM 1 / 10 W 2012 5.00
		R1350	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R140	0RH0392D622	39 OHM 1 / 10 W 2012 5.00%
		R141	0RH0392D622	39 OHM 1 / 10 W 2012 5.00%
		R142	0RH0392D622	39 OHM 1 / 10 W 2012 5.00%
		R143	0RH0392D622	39 OHM 1 / 10 W 2012 5.00%
		R144	0RH0392D622	39 OHM 1 / 10 W 2012 5.00%
		R145	0RH0392D622	39 OHM 1 / 10 W 2012 5.00%
		R146	0RH0392D622	39 OHM 1 / 10 W 2012 5.00%
		R147	0RH0392D622	39 OHM 1 / 10 W 2012 5.00%
		R1501	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R154	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R156	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R158	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R162	0RH2701D622	2.7K OHM 1 / 10 W 2012 5.00
		R201	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R202	0RH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R203	0RH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R204	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R22	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R24	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R25	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R264	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R265	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R266	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R267	0RH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R268	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R300	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R301	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R302	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R304	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R305	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R306	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R307	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R308	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%

DATE: 2005. 09. 18.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R309	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R312	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R313	0RH1500D622	150 OHM 1 / 10 W 2012 5.00%
		R314	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R315	0RH1500D622	150 OHM 1 / 10 W 2012 5.00%
		R320	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R322	0RH1500D622	150 OHM 1 / 10 W 2012 5.00%
		R324	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R338	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R339	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R342	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R343	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R348	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R349	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R352	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R353	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R354	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R355	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R363	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R367	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R373	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R377	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R379	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R381	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R383	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R394	0RH6800D622	680 OHM 1 / 10 W 5% D R/TP
		R395	0RH6800D622	680 OHM 1 / 10 W 5% D R/TP
		R4000	0RH1003D622	100K OHM 1 / 10 W 2012 5.00
		R4001	0RH1003D622	100K OHM 1 / 10 W 2012 5.00
		R4002	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R4003	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R4004	0RH0472D622	47 OHM 1 / 10 W 2012 5.00%
		R4008	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R4010	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R4012	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R4025	0RH0472D622	47 OHM 1 / 10 W 2012 5.00%
		R4026	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R44	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R45	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R46	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R5006	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R5008	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R5014	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R502	0RH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R505	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R506	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R516	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R517	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R519	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R520	0RH1800D622	180 OHM 1 / 10 W 2012 5.00%
		R527	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R530	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R532	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R607	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R610	0RH2701D622	2.7K OHM 1 / 10 W 2012 5.00
		R700	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R703	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R705	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R712	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R713	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R715	0RH1202D622	12K OHM 1 / 10 W 2012 5.00%
		R716	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%

DATE: 2005. 09. 18.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R719	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R725	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R726	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R729	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R730	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R732	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R737	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R738	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R752	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R753	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R755	0RH0102D622	10 OHM 1 / 10 W 2012 5.00%
		R756	0RH0102D622	10 OHM 1 / 10 W 2012 5.00%
		R760	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R761	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R802	0RH8200D622	820 OHM 1 / 10 W 2012 5.00%
		R803	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R805	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R806	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R809	0RH0102D622	10 OHM 1 / 10 W 2012 5.00%
		R83	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R85	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R850	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R851	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R854	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R87	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R89	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R930	0RH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R931	0RH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R941	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R960	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R961	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%-LPL
		R963	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R964	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R969	0RH1202D622	12K OHM 1 / 10 W 2012 5.00%-LPL
		R970	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP-LPL
		R971	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%-LPL
		R973	0RH1202D622	12K OHM 1 / 10 W 2012 5.00%-CMO
		R974	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R976	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R977	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R979	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00-CMO
		R983	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%-CMO
		R994	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R999	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R100	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R1013	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1015	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R102	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R1027	0RJ1202D677	12K OHM 1/10 W 5% 1608 R/TP
		R1028	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R108	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R109	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R110	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R111	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R1104	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP-AUO
		R1110	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R112	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R113	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R114	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R115	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R116	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R117	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP

DATE: 2005. 09. 18.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R120	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R121	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R122	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R123	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R124	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R125	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R127	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/T
		R130	0RJ8201D677	8.2K OHM 1/10 W 5% 1608 R/T
		R1300	0RJ6801D477	6.8K OHM 1/10 W 1% 1608 R/T
		R1302	0RJ2202D477	22K OHM 1/10 W 1% 1608 R/TP
		R1303	0RJ6801D477	6.8K OHM 1/10 W 1% 1608 R/T
		R1305	0RJ2202D477	22K OHM 1/10 W 1% 1608 R/TP
		R131	0RJ8201D677	8.2K OHM 1/10 W 5% 1608 R/T
		R136	0RJ8202D677	82K OHM 1/10 W 5% 1608 R/TP
		R137	0RJ8202D677	82K OHM 1/10 W 5% 1608 R/TP
		R138	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R139	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R15	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R1500	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R152	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R153	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R155	0RJ2700D677	270 OHM 1/10 W 5% 1608 R/TP
		R157	0RJ2700D677	270 OHM 1/10 W 5% 1608 R/TP
		R159	0RJ2700D677	270 OHM 1/10 W 5% 1608 R/TP
		R16	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R160	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R161	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R163	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R164	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R17	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R173	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/T
		R175	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/T
		R18	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R205	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R207	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R209	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R210	0RJ2402D677	24K OHM 1/10 W 5% 1608 R/TP
		R211	0RJ5602D477	56K OHM 1/10 W 1% 1608 R/TP
		R213	0RJ1501D677	1.5K OHM 1/10 W 5% 1608 R/T
		R214	0RJ1501D677	1.5K OHM 1/10 W 5% 1608 R/T
		R218	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R220	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R237	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R238	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R239	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R240	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R241	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R244	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R245	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R246	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R247	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R248	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R249	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R250	0RJ2402D677	24K OHM 1/10 W 5% 1608 R/TP
		R251	0RJ5602D477	56K OHM 1/10 W 1% 1608 R/TP
		R253	0RJ6801D677	6800 OHM 1/10 W 5% 1608 R/T
		R254	0RJ6801D677	6800 OHM 1/10 W 5% 1608 R/T
		R256	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R257	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R303	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R317	0RJ2700D677	270 OHM 1/10 W 5% 1608 R/TP
		R319	0RJ2700D677	270 OHM 1/10 W 5% 1608 R/TP

DATE: 2005. 09. 18.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R321	0RJ2700D677	270 OHM 1/10 W 5% 1608 R/TP
		R323	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R326	0RJ6201D677	6.2K OHM 1/10 W 5% 1608 R/T
		R329	0RJ6201D677	6.2K OHM 1/10 W 5% 1608 R/T
		R34	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R35	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R356	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R357	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R358	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R359	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R385	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R387	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R390	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R392	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R393	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R4005	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R4006	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R4015	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R4016	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R4019	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R4020	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R4022	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R4023	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R4024	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R4027	0RJ3001D677	3K OHM 1/10 W 5% 1608 R/TP
		R4032	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R4033	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R449	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R450	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R451	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R47	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R48	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R50	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R500	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R5002	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R5007	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R5009	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R501	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R5013	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R5015	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R5016	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R5017	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R5019	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R5020	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R5021	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R504	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R51	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R515	0RJ4703D677	470K OHM 1/10 W 5% 1608 R/T
		R52	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R521	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R522	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R523	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R524	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R525	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R526	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R528	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R529	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R53	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R533	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R534	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R54	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R55	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP

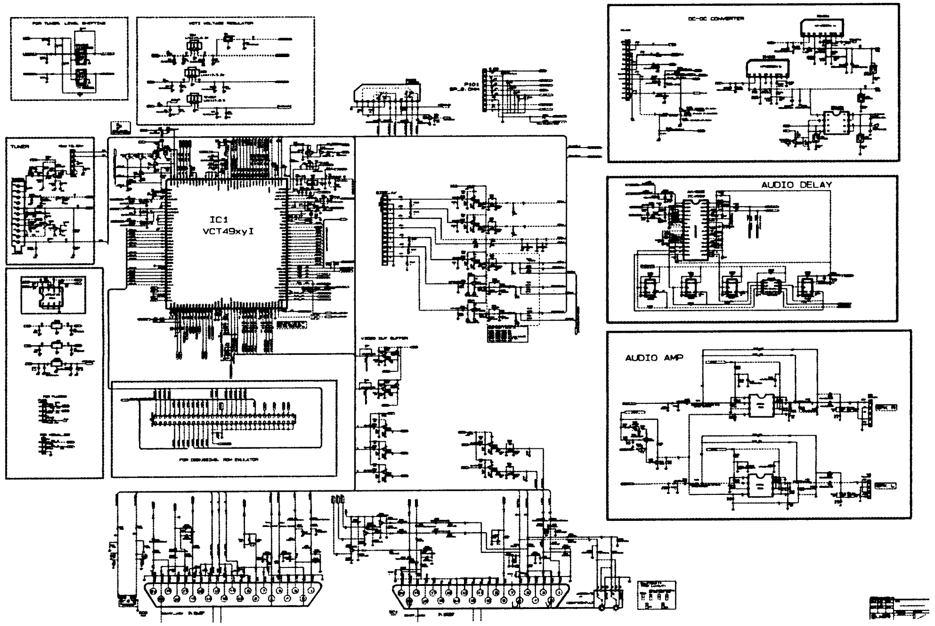
				DATE: 2005. 09. 18.
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R56	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R57	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R58	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R59	0RJ1211D477	1.21K OHM 1/10 W 1% 1608 R/
		R60	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R600	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R601	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R602	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R603	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R604	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R606	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R608	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R609	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R62	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R64	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R66	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R68	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R70	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R701	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R702	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R706	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R71	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R711	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R717	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R718	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R72	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R720	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R721	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R722	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R727	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R728	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R73	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R731	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R739	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R740	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R751	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R754	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R757	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R758	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R759	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R79	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R800	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R801	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R807	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R808	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R81	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R852	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R853	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R855	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R856	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R86	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R88	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R90	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R901	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R902	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R904	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R906	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R908	0RJ0822D677	82 OHM 1/10 W 5% 1608 R/TP
		R909	0RJ0822D677	82 OHM 1/10 W 5% 1608 R/TP
		R910	0RJ0822D677	82 OHM 1/10 W 5% 1608 R/TP
		R913	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R914	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP

				DATE: 2005. 09. 18.
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R915	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R916	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R917	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R918	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R919	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R92	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R920	0RJ4990D477	499 OHM 1/10 W 1% 1608 R/TP
		R921	0RJ4990D477	499 OHM 1/10 W 1% 1608 R/TP
		R923	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R924	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R925	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R926	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R927	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R928	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP-CMO
		R929	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R93	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R933	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R934	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R935	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R936	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R937	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R938	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R939	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R94	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R940	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R942	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R943	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R944	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R945	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R946	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R947	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R948	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R949	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R950	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R952	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R953	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R96	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R965	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R966	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R967	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R968	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R972	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R975	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R98	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R980	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00-AUO
		R981	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP-CMO
		R982	0RJ6801D477	6.8K OHM 1/10 W 1% 1608 R/T-CMO
		R984	0RJ2202D477	22K OHM 1/10 W 1% 1608 R/TP-CMO
		R985	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP-CMO
		R986	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP-CMO
		R987	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP-LPL
		R988	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP-LPL
		R989	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D-AUO
		R99	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R990	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D-AUO
		R992	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D-LPL
		R992	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D-AUO
OTHERs				
		X4000	6202TTB001G	HC-49U SUNNY 12.288MHZ +/-
		X11	6202VDT002E	SX-1SMD SUNNY RADIAL 202500

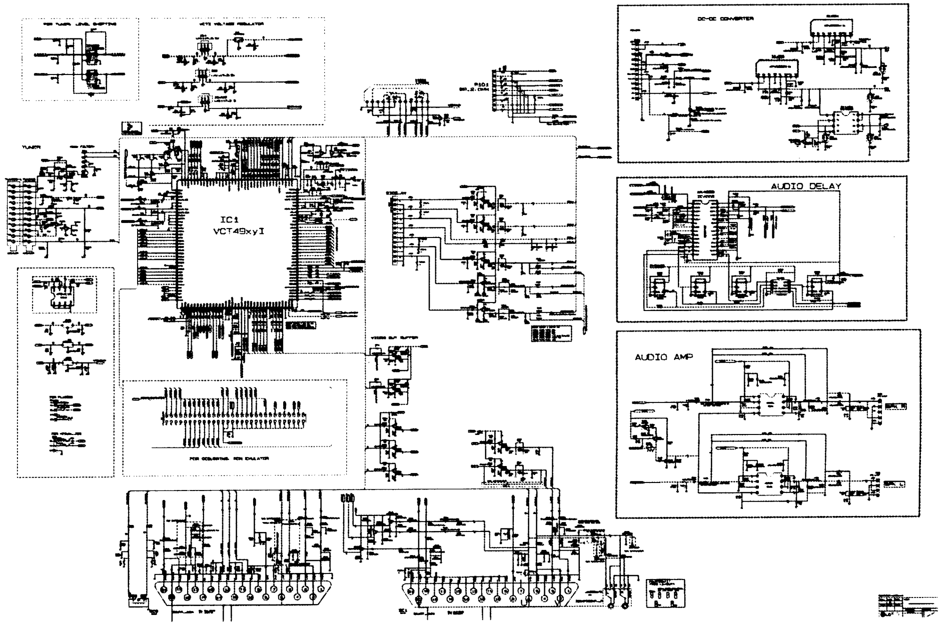
DATE: 2005. 09. 18.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		X500	6202VDT002J	SX-1 SUNNY 13.500000MHZ +/-
		X900	6202VDT002B	SX-1 SUNNY SC14.3MHZ +/- 30
		IC900	6620F00017A	CCSD-32T-SM WOOYOUNG 32P PL
		TU1000	6700VS0003E	TAEW-G053D LGIT MULTI VS PA
IR BOARD				
		C1500	0CN1040K949	"0.1UF D 50V 80%,-20% F(Y5V)"
		L1500	0LA0102K119	10UH K 2.3*3.4 TP
		IR1500	6712000013A	TSOP4438SO1 VISHAY 38KHZ AN
CONTROL BOARD				
		L1700	0LA0102K119	10UH K 2.3*3.4 TP
		R1700	0RN8200F409	820 1/6W 1% TA52
		R1701	0RN6200F409	620 1/6W 1% TA52
		R1702	0RN5100F409	510 OHM 1/6 W 1.00% TA52
		R1703	0RN4300F409	430 OHM 1/6 W 1.00% TA52
		R1704	0RN3300F409	330 1/6W 1% TA52
		R1705	0RN2700F409	270 1/6W 1% TA52
		R1706	0RN2701F409	2.7K OHM 1/6 W 1.00% TA52
		SW1700	140-313A	TACT 2LEAD 100G(TA) LG C&D
		SW1701	140-313A	TACT 2LEAD 100G(TA) LG C&D
		SW1702	140-313A	TACT 2LEAD 100G(TA) LG C&D
		SW1703	140-313A	TACT 2LEAD 100G(TA) LG C&D
		SW1704	140-313A	TACT 2LEAD 100G(TA) LG C&D
		SW1705	140-313A	TACT 2LEAD 100G(TA) LG C&D
		SW1706	140-313A	TACT 2LEAD 100G(TA) LG C&D
LED & P/SW BOARD				
		C1600	0CN1040K949	"0.1UF D 50V 80%,-20% F(Y5V)"
		L1600	0LA0102K119	10UH K 2.3*3.4 TP
		Q1601	0TR319809AA	KTC3198(KTC1815) KEC TP TO9
		Q1602	0TR319809AA	KTC3198(KTC1815) KEC TP TO9
		Q1603	0TR319809AA	KTC3198(KTC1815) KEC TP TO9
		R1600	0RD3301Q609	3.30K 1/4W(3 5% TA52
		R1601	0RD2701Q609	2.7K OHM 1/4 W(3.4) 5.00% T
		R1602	0RD2700Q609	270 1/4W(3 5% TA52
		R1603	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA5
		R1604	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA5
		R1605	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA5
		R1606	0RD1500Q609	150 1/4W(3 5% TA52
		SW1600	140-313A	TACT 2LEAD 100G(TA) LG C&D
		LED1600	0DLBE0128AA	BRIGHT LED ELECTRONICS BL-B
VIDEO BOARD				
		C2006	0CN4710K519	470PF D 50V 10% B(Y5P) TA52
		C2007	0CN4710K519	470PF D 50V 10% B(Y5P) TA52
		R2001	0RD0752Q609	75 1/4W(3 5% TA52
		R2002	0RD0752Q609	75 1/4W(3 5% TA52
		R2003	0RD0752Q609	75 1/4W(3 5% TA52
		R2004	0RD0752Q609	75 1/4W(3 5% TA52
		R2005	0RD0752Q609	75 1/4W(3 5% TA52
		R2006	0RD4703Q609	470K 1/4W(3 5% TA52
		R2007	0RD4703Q609	470K 1/4W(3 5% TA52

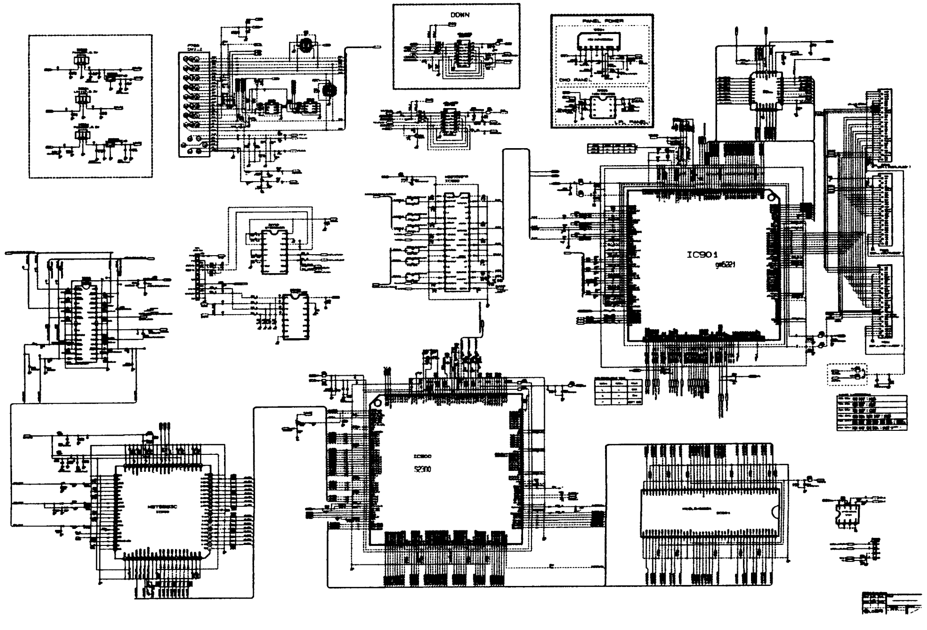
ML041A
RZ-23LZ55


FOR TUNER LEVEL SHIFTING
VCT3 VOLTAGE REGULATOR
TUNER
IC1
VCT49xyI
P101
DC-DC CONVERTER
AUDIO DELAY
AUDIO AMP
VIDEO OUT BUFFER
FOR DEBUGGING ROM EMULATOR

ML041A
RZ-26LZ55


FOR TUNER LEVEL SHIFTING
VCT3 VOLTAGE REGULATOR
TUNER
IC1
VCT49xyI
P101
DC-DC CONVERTER
AUDIO DELAY
AUDIO AMP
VIDEO OUT BUFFER
FOR DEBUGGING ROM EMULATOR

ML041A
RZ-23LZ55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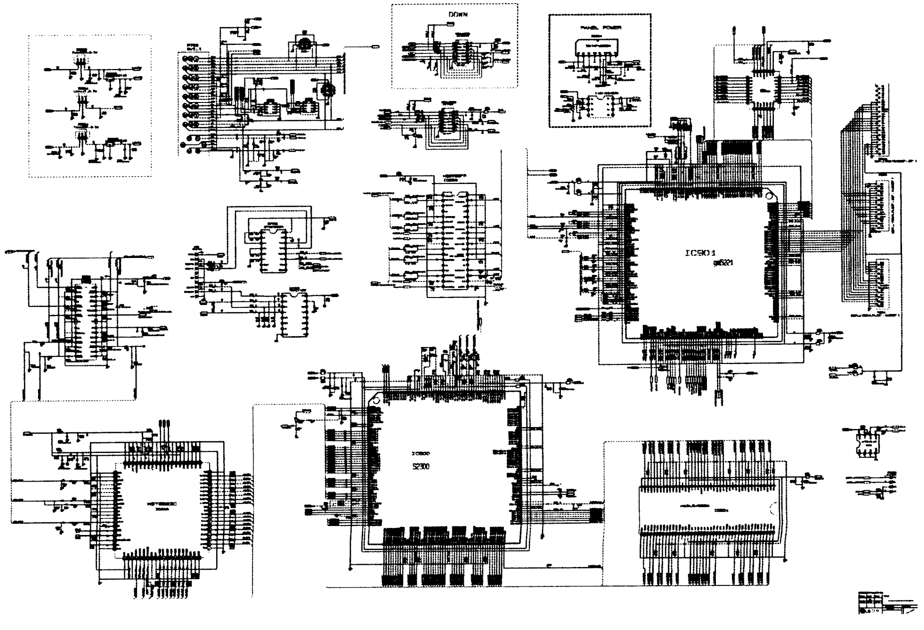
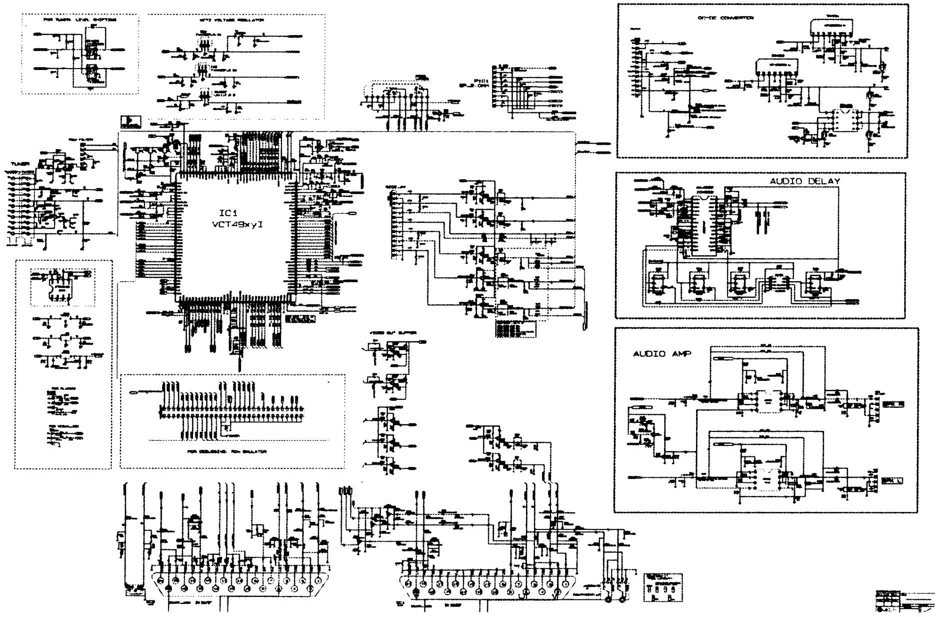
PANEL POWER
IC901
gm6221
IC800
S2300

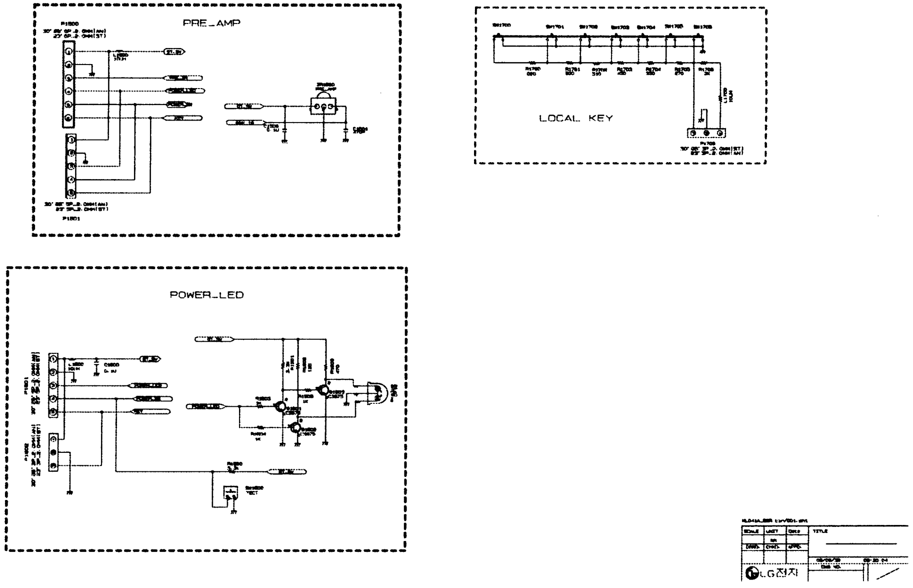
ML041A
RZ-26LZ55


DOWN
PANEL POWER
IC901
gm6221
IC800
S2300

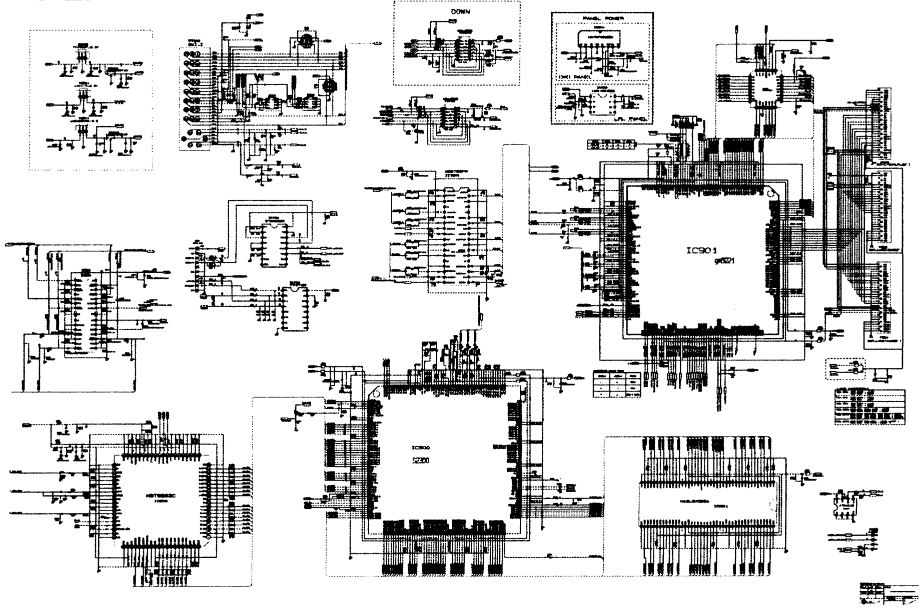
ML041A
RZ-32LZ55


FOR TUNER LEVEL SHIFTING
TUNER
IC1
VCT49xyI
AUDIO DELAY
AUDIO AMP
FOR DEBUGGING, ROM EMULATOR
P301

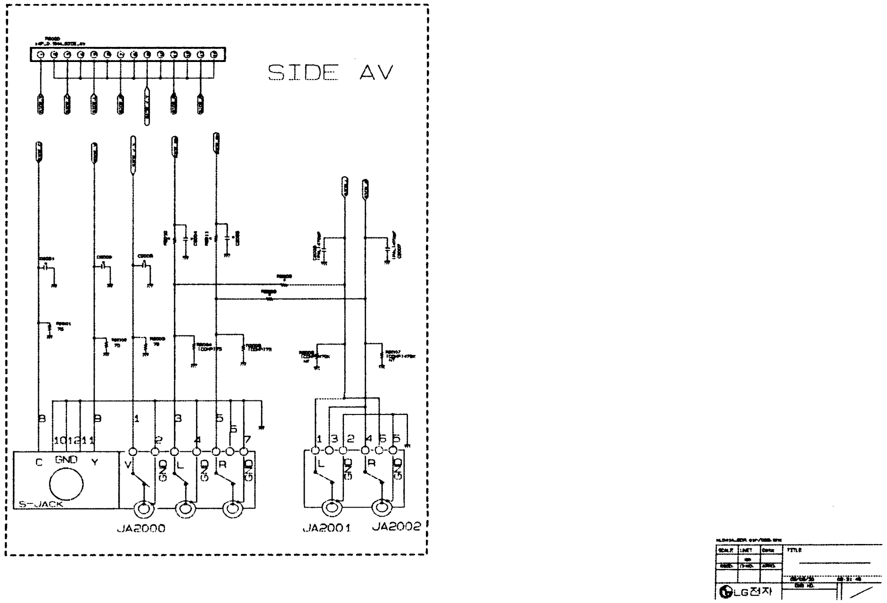
ML041A
RZ-23/26/32LZ55


PRE_AMP
P1800
30" 26" SP_2. OHM(AH)
23" SP_2. OHM(ST)
P1801
POWER_LED
LOCAL KEY
TITLE
LG전자

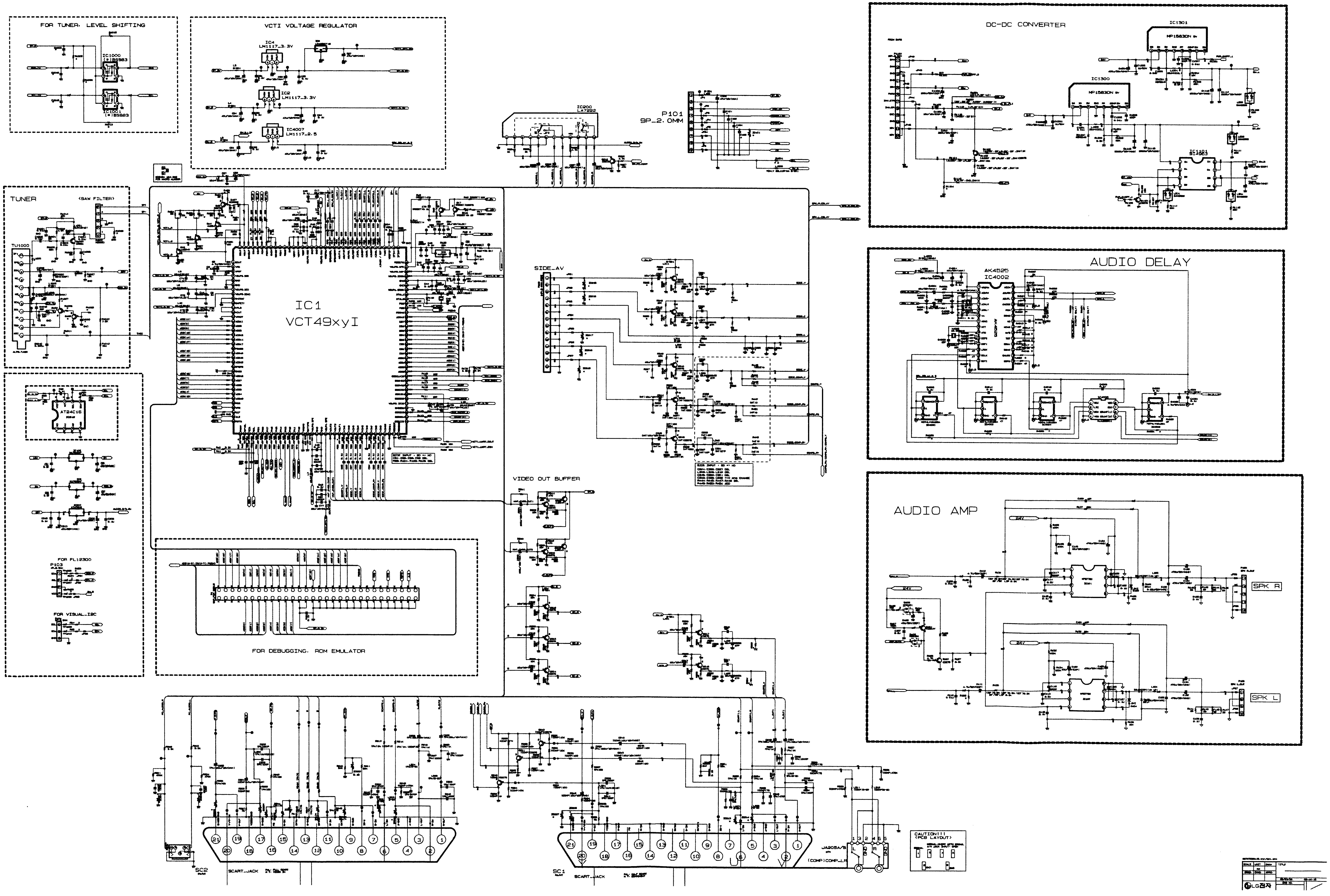
ML041A
RZ-32LZ55

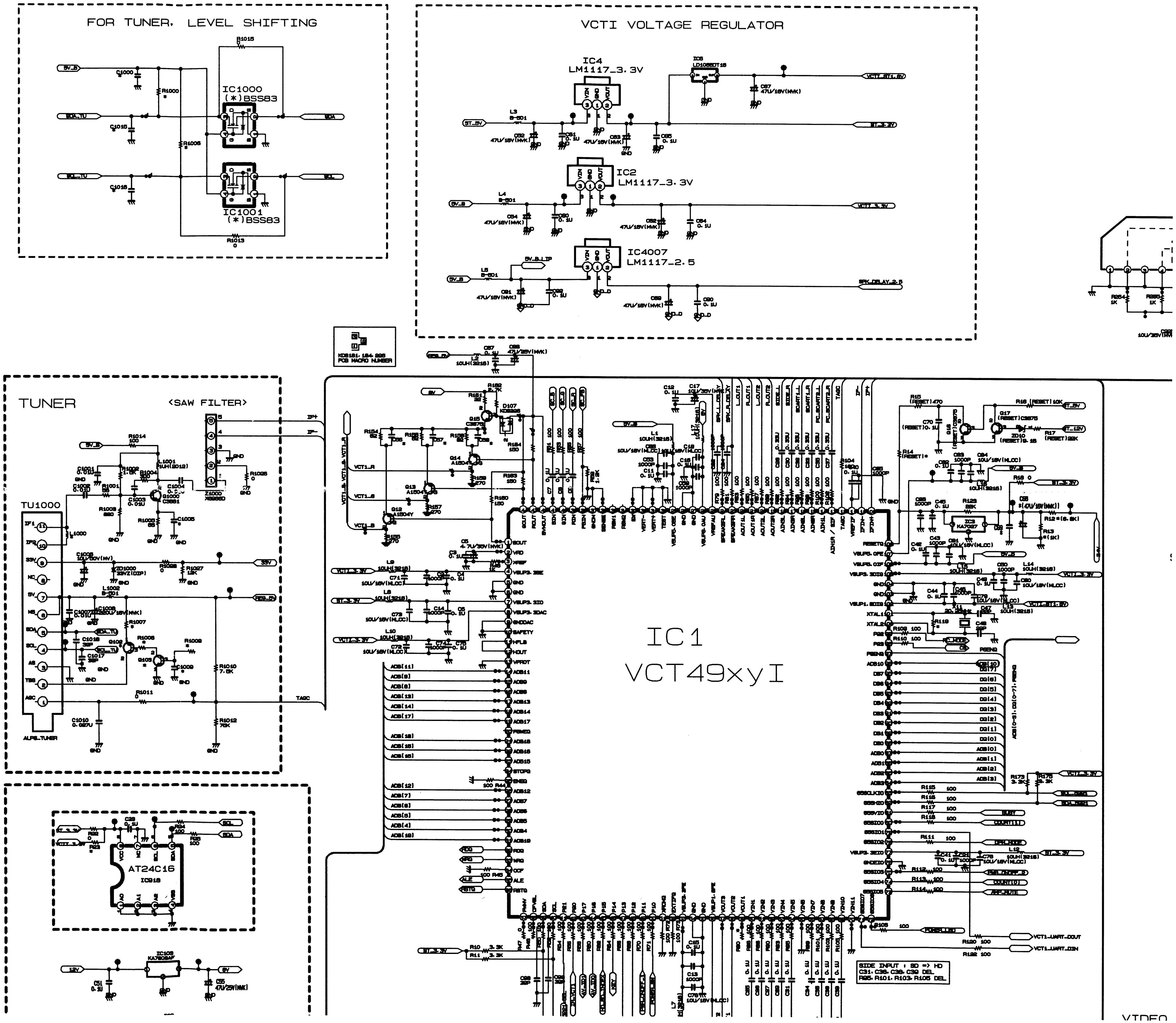

DOWN
PANEL POWER
IC901
gm5621
IC900
S2300

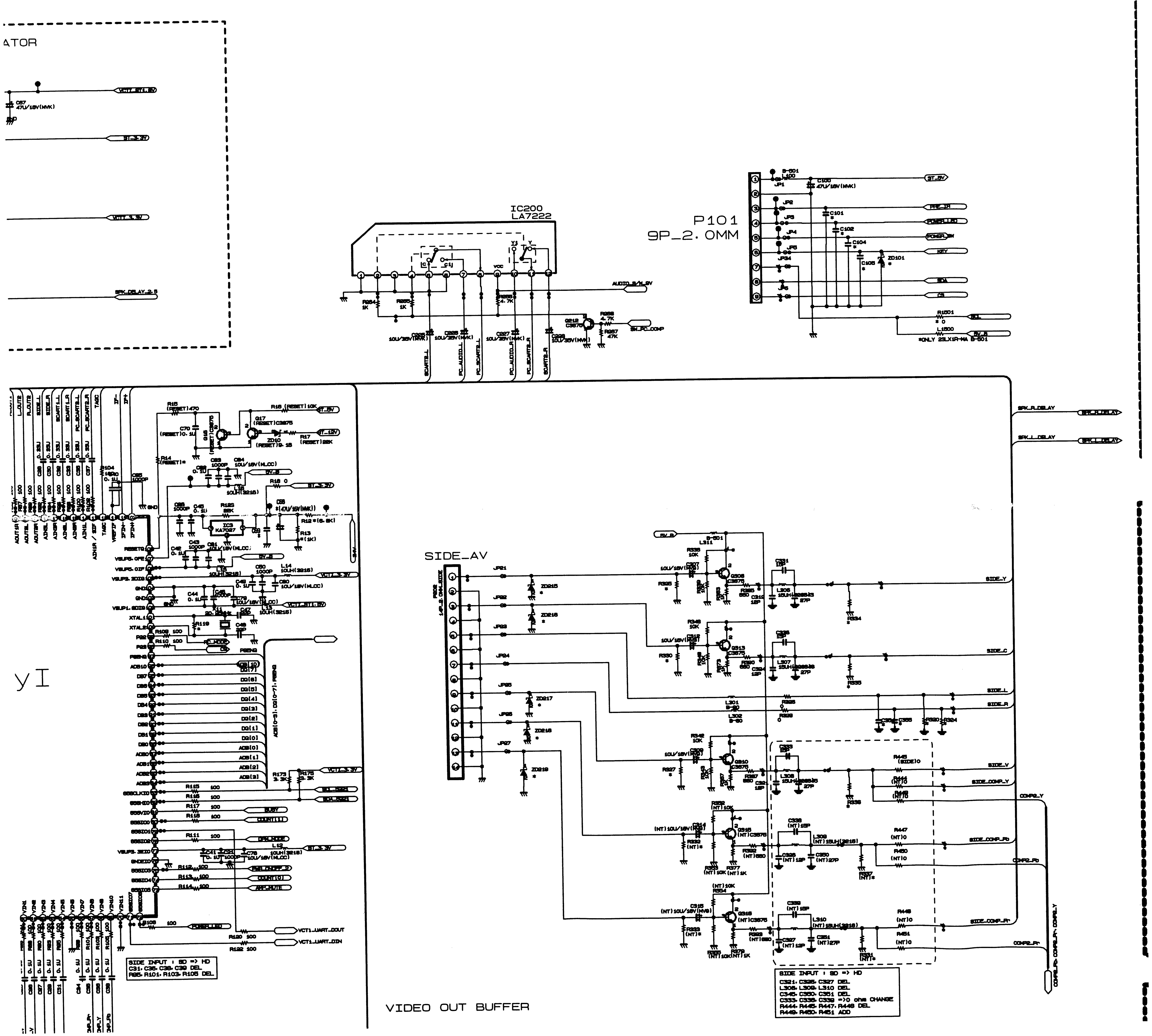
ML041A
RZ-23/26/32LZ55


SIDE AV
8
10
12
11
9
1
2
3
4
5
6
7
C
GND
Y
S-JACK
V
GND
L
GND
R
GND
JA2000
1
3
2
4
6
5
L
GND
R
GND
JA2001
JA2002
TITLE
LG전자

ML041A
RZ-23LZ55

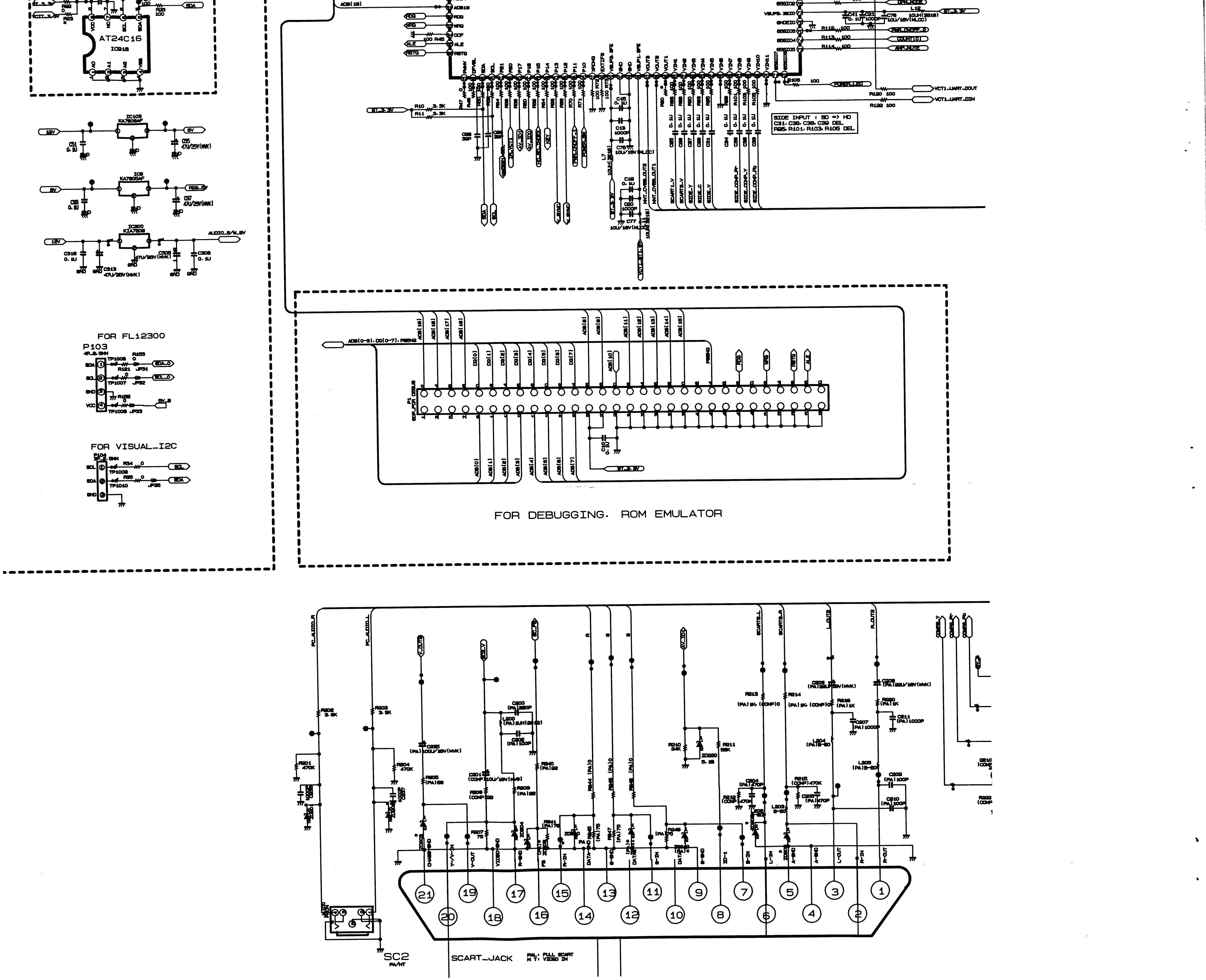

FOR TUNER, LEVEL SHIFTING
IC1000
IC1001
VCTI VOLTAGE REGULATOR
IC4
LM1117_3.3V
IC2
LM1117_3.3V
IC4007
LM1117_2.5
IC200
LA7222
P101
9P_2.0MM
DC-DC CONVERTER
IC1301
MP1583DN
IC1300
MP1583DN
IC1101
TUNER
(SAW FILTER)
TU1000
IC1
VCT49xyI
SIDE_AV
AUDIO DELAY
AK4525
IC4002
AT24C16
FOR FL12300
P103
FOR VISUAL_I2C
VIDEO OUT BUFFER
AUDIO AMP
24V
SPK R
SPK L
FOR DEBUGGING, ROM EMULATOR
SC2
SCART_JACK
SC1
SCART_JACK
JA205A/B
(COMP)COMP_L_R
CAUTION!!!
(PCB LAYOUT)
LG전자

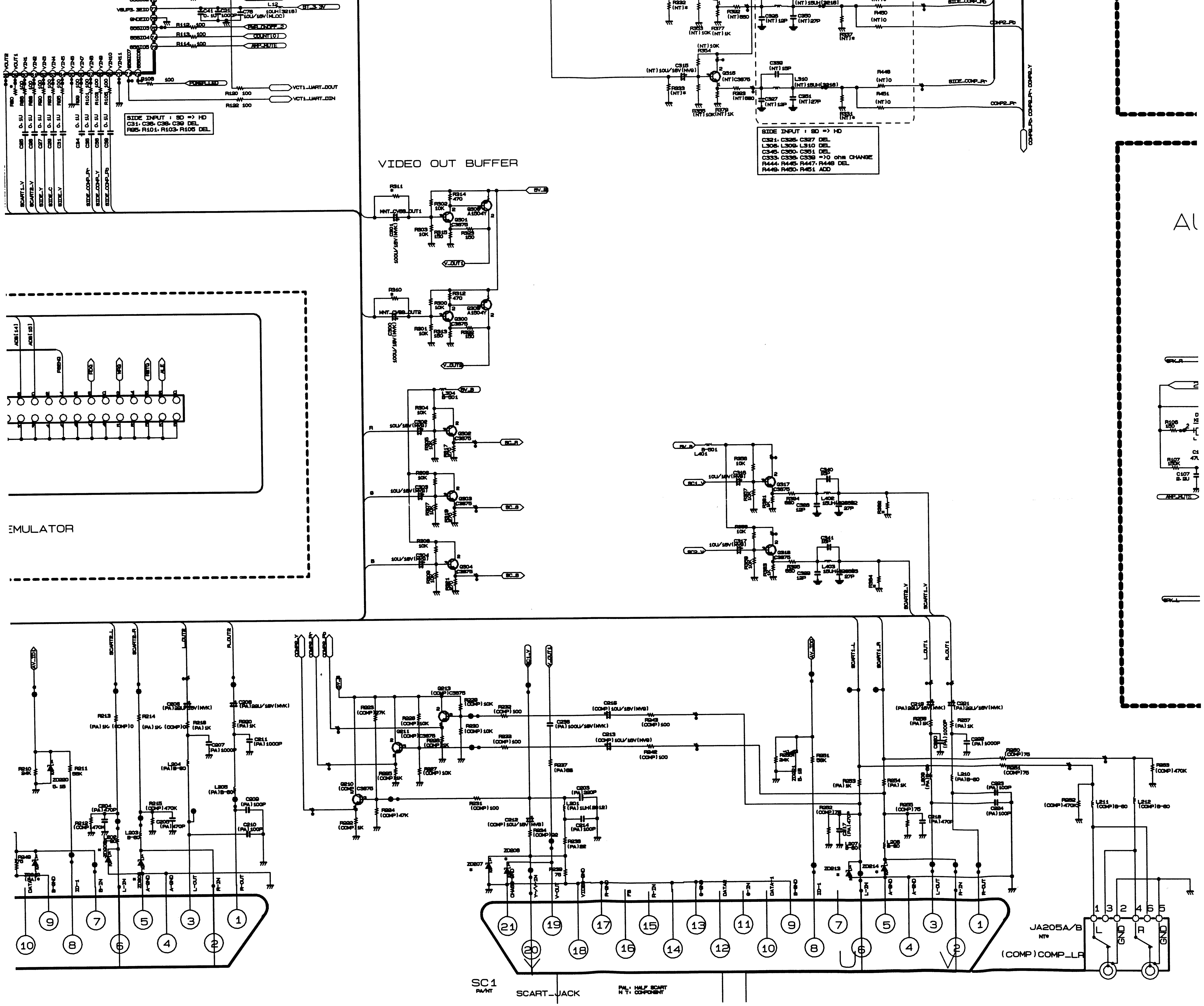

FOR TUNER, LEVEL SHIFTING
IC1000
(*)BSS83
IC1001
(*)BSS83
R1015
R1000
R1006
R1013
C1000
C1015
C1016
5V_S
SDA_TU
SCL_TU
SDA
SCL
VCTI VOLTAGE REGULATOR
IC4
LM1117_3.3V
IC5
LD1086DT18
IC2
LM1117_3.3V
IC4007
LM1117_2.5
VIN
GND
VOUT
ST_5V
ST_3.3V
VCT1_3.3V
VCT1_ST1.8V
5V_S
SPK_DELAY_2.5
5V_S_LIP
47U/16V(HVK)
0.1U
KDS181 184 895
PCB MACRO NUMBER
TUNER
<SAW FILTER>
TU1000
IF1
IF2
33V
NC
5V
NS
SDA
SCL
AS
TSS
AGC
ALPS_TUNER
Z1000
K9656D
IF+
IF-
TAGC
33V
RF5_5V
C1010
0.027U
R1012
75K
R1010
7.5K
R1011
IC1
VCT49xyI
AT24C16
IC918
WP
VCC
NC
SCL
SDA
A0
A1
A2
VSS
IC103
KA7808AF
12V
5V
C55
47U/25V(HVK)
C51
0.1U
RESETQ
XTAL1
XTAL2
SIDE INPUT : SD => HD
C31, C36, C39, C39 DEL
R95, R101, R103, R105 DEL
VCT1_UART_DOUT
VCT1_UART_DIN
POWER_LED
AMP_MUTE
SCL_DSP1
SDA_DSP1
RESET
KA7027
VIDEO

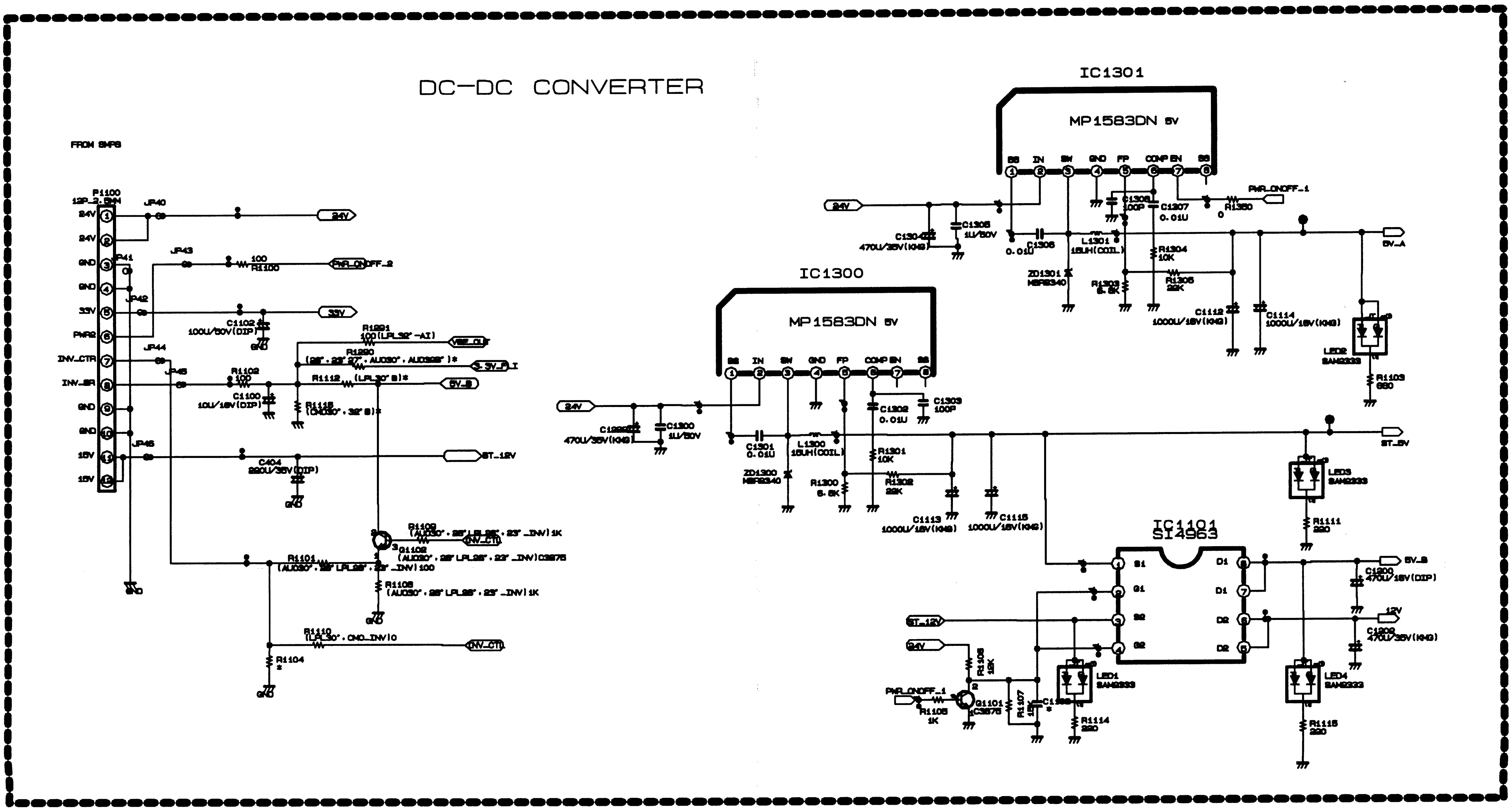

ATOR
IC200
LA7222
P101
9P_2.0MM
ST_5V
POWER_LED
POWER_SW
KEY
SDA
SCL
*ONLY 23LX1R-MA B-601
AUDIO_R/L_5V
SPK_R_DELAY
SPK_L_DELAY
SIDE_AV
SIDE_Y
SIDE_C
SIDE_L
SIDE_R
SIDE_V
SIDE_COMP_Y
SIDE_COMP_Pb
SIDE_COMP_Pr
COMP2_Y
COMP2_Pb
COMP2_Pr
KA7027
VIDEO OUT BUFFER

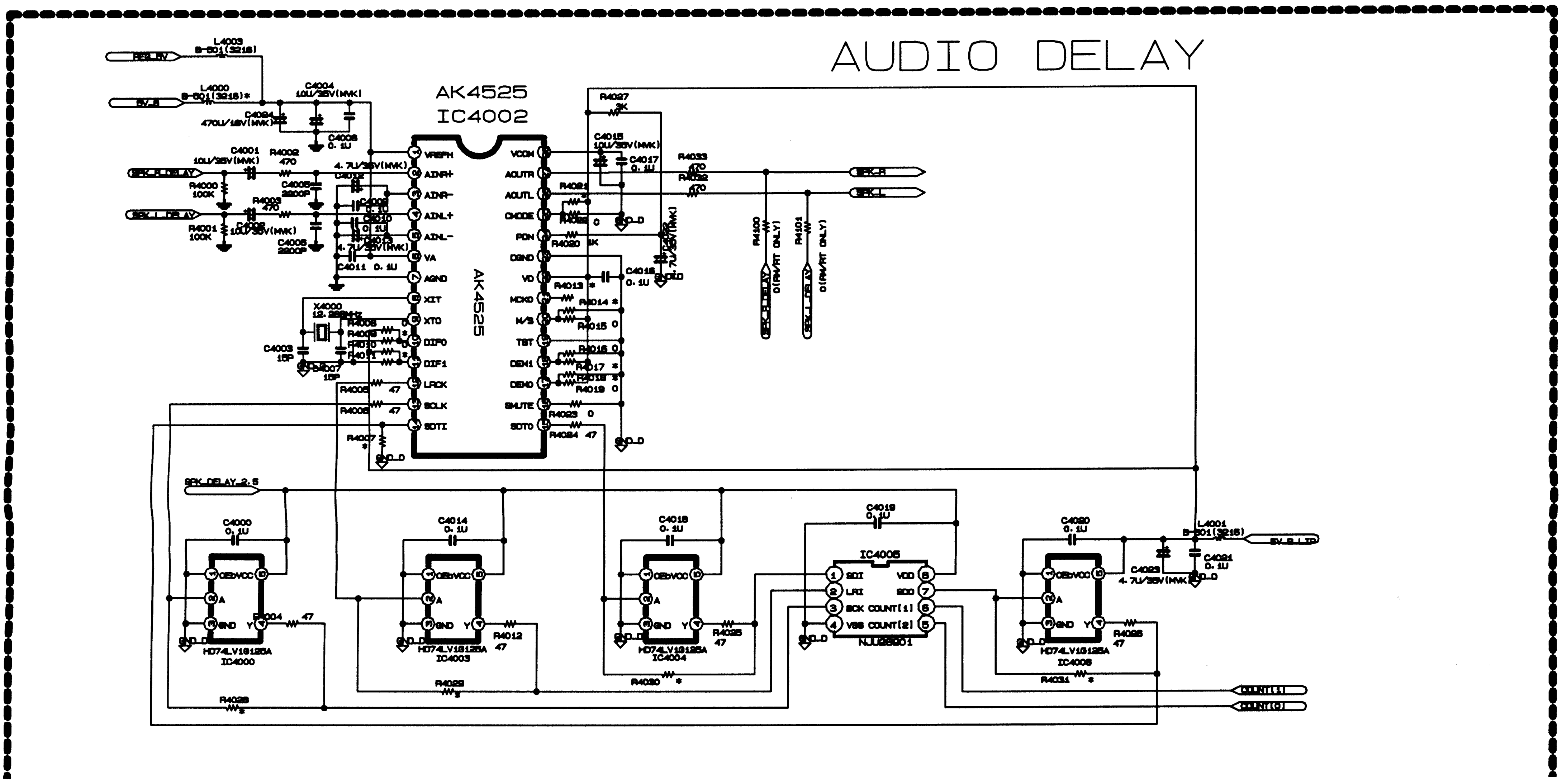
SIDE INPUT : SD => HD
C31, C36, C38, C39 DEL
R95, R101, R103, R105 DEL

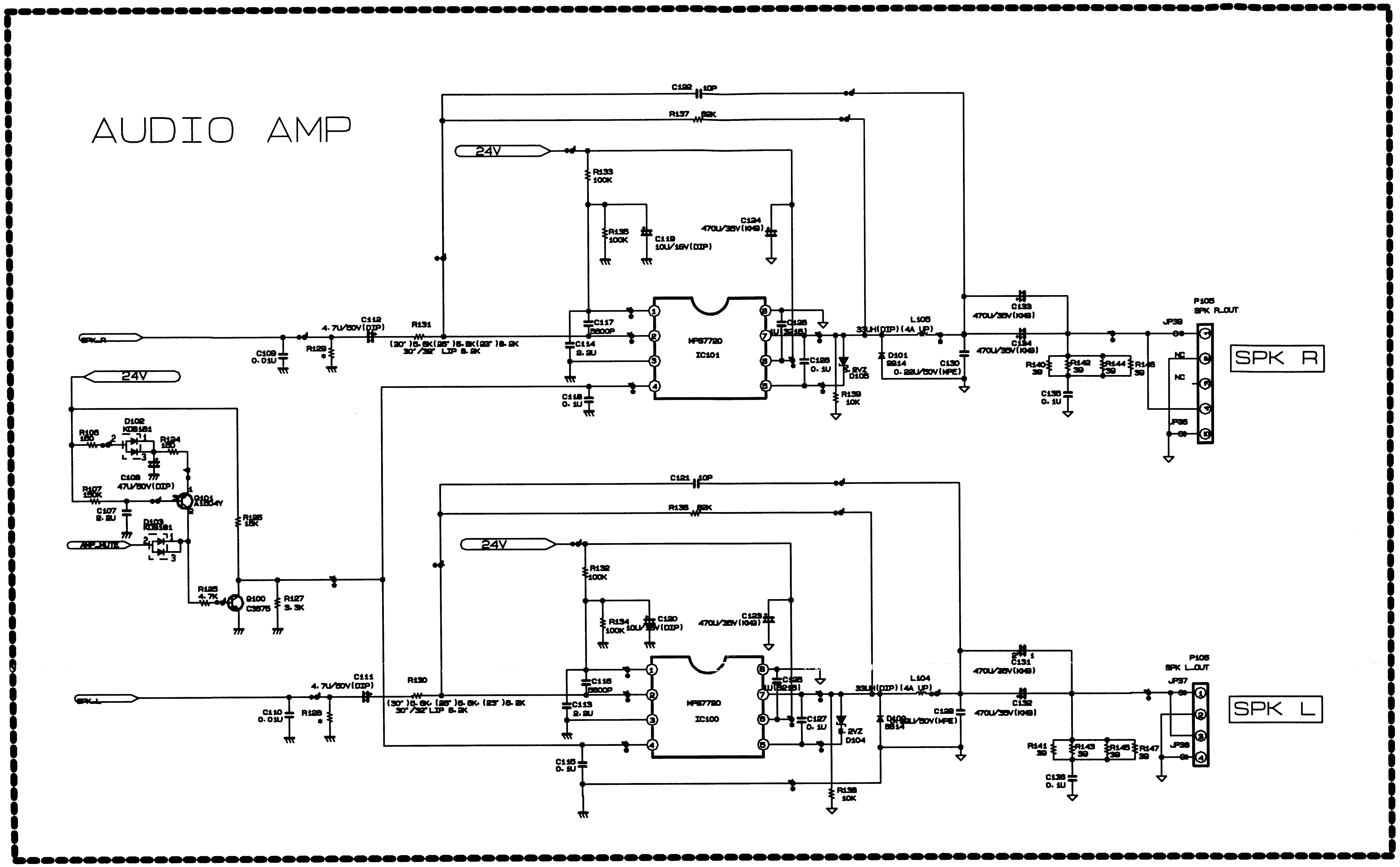
SIDE INPUT : SD => HD
C321, C326, C327 DEL
L308, L309, L310 DEL
C345, C350, C351 DEL
C333, C338, C339 =>0 ohm CHANGE
R444, R445, R447, R448 DEL
R449, R450, R451 ADD

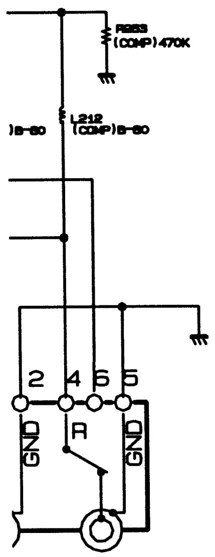

AT24C16
IC918
VCC
NC
SCL
SDA
A0
A1
A2
VSS
R22 0
R23 *
R25 100
BT_3.3V
VCC1_3.3V
IC103
KA7808AF
12V
8V
C51 0.1U
C55 47U/25V(MVK)
GND
IC8
KA7805AF
REG_5V
C96 0.1U
C97 47U/25V(MVK)
IC300
KIA7809
AUDIO_S/W_9V
C316 0.1U
C313 47U/25V(MVK)
C308 47U/25V(MVK)
C306 0.1U
FOR FL12300
P103
4P_2.5MM
SDA
SCL
GND
VCC
TP1006
TP1007
TP1008
R121
R153 0
R152 0
JP31
JP32
JP33
SDA_0
SCL_0
5V_S
FOR VISUAL_I2C
P104
3P_2.5MM
TP1009
TP1010
R34 0
R35 0
JP35
SCL
SDA
GND
R10 3.3K
R11 3.3K
R47
C28 39P
C29 39P
C15 0.1U
C13 1000F
C78 10U/16V(MLCC)
L7 10UH(3216)
C18 0.1U
C80 1000P
C77 10U/16V(MLCC)
L11 10UH(3216)
CVBS_OUT2
CVBS_OUT1
SCART1_V
SCART2_V
SIDE_Y
SIDE_C
SIDE_V
SIDE_COMP_Pr
SIDE_COMP_Y
SIDE_COMP_Pb
SDA
SCL
VCT1_UART_DOUT
VCT1_UART_DIN
R120 100
R122 100
SSSIO2
VSUP3.3EIO
GNDEIO
SSSIO3
SSSIO4
SSSIO5
R112 100
R113 100
R114 100
C41 0.1U
C21 1000P
C76 10U/16V(MLCC)
L12 10UH(3216)
PWR_ON/OFF_2
COUNT(0)
AMP_MUTE
R105 100
POWER_LED
SIDE INPUT : SD => HD
C31, C36, C38, C39 DEL
R95, R101, R103, R105 DEL
ADB[0-9], DB[0-7], PSENB
P1
SCP_FOR DEBUG
ST_3.3V
C10 0.1U
FOR DEBUGGING. ROM EMULATOR
PC_AUDIO_R
PC_AUDIO_L
R202 3.3K
R203 3.3K
R201 470K
R204 470K
SCART1_L
SCART1_R
L_OUT2
R_OUT2
C205 (PA)22U/16V(MVK)
C206 (PA)22U/16V(MVK)
R213 (PA)1K (COMP)0
R214 (PA)1K (COMP)0
R219 (PA)1K
R220 (PA)1K
C207 (PA)1000P
C211 (PA)1000P
C225 (PA)100U/16V(MVK)
C201 (COMP)10U/16V(MVK)
C200 (PA)220P
L200 (PA)1UH(3216)
C202 (PA)100P
R205 (PA)68
R206 (COMP)22
R209 (PA)22
R207 75
R240 (PA)22
R241 (PA)75
R244 (PA)10
R246 (PA)10
R248 (PA)10
R245 (PA)75
R247 (PA)75
R249 (PA)75
R210 24K
R211 56K
ZD220 5.1B
CVBS_OUT
CVBS_V
SC1_FB
AV_SW
C209 (PA)100P
C210 (PA)100P
CHASSIS GND
Y-/V-IN
V-OUT
VIDEO GND
R-GND
FB
R-IN
DATA GND
G-GND
DATA
G-IN
ID-1
B-IN
L-IN
A-GND
L-OUT
R-OUT
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
SC2
PA/NT
SCART_JACK
PAL: FULL SCART
NT: VIDEO IN

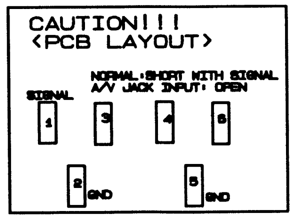

VIDEO OUT BUFFER
SIDE INPUT : SD => HD
C31, C36, C38, C39 DEL
R95, R101, R103, R105 DEL
SIDE INPUT : SD => HD
C321, C325, C327 DEL
L308, L309, L310 DEL
C345, C350, C351 DEL
C333, C336, C339 =>0 ohm CHANGE
R444, R445, R447, R448 DEL
R449, R450, R451 ADD
POWER_LED
VCT1_UART_DOUT
VCT1_UART_DIN
SIDE_COMP_Pb
COMP2_Pb
SIDE_COMP_Pr
COMP2_Pr
5V_B
V_OUT1
V_OUT2
MNT_CVBS_OUT1
MNT_CVBS_OUT2
SC_R
SC_G
SC_B
SC1_V
SC2_V
EMULATOR
AMP_MUTE
SCART1_V
SCART2_V
SCART1_L
SCART1_R
SCART2_L
SCART2_R
L_OUT1
R_OUT1
L_OUT2
R_OUT2
SC1
PA/NT
SCART_JACK
PAL: HALF SCART
N T: COMPONENT
JA205A/B
NT*
(COMP)COMP_LR
L
R
GND
AU


DC–DC CONVERTER
FROM SMPS
P1100
12P_2.5MM
24V
GND
33V
PWR2
INV_CTR
INV_BR
15V
JP40
JP41
JP42
JP43
JP44
JP45
JP46
R1100
100
PWR_ONOFF_2
C1102
100U/50V(DIP)
R1201
VBS_OUT
R1290
3.3V_PLI
R1102
100
R1112
5V_B
C1100
10U/16V(DIP)
R1115
C404
220U/35V(DIP)
ST_12V
R1109
INV_CTL
Q1102
R1101
R1105
R1110
R1104
IC1301
MP1583DN 5V
BS
IN
SW
GND
FB
COMP
EN
SS
C1304
470U/35V(KHS)
C1305
1U/50V
C1308
100P
C1307
0.01U
R1350
PWR_ONOFF_1
C1306
0.01U
L1301
15UH(COIL)
ZD1301
MBR340
R1303
6.8K
R1304
10K
R1305
22K
C1112
1000U/16V(KHS)
C1114
1000U/16V(KHS)
5V_A
LED2
SAM2333
R1103
680
IC1300
MP1583DN 5V
C1299
470U/35V(KHS)
C1300
1U/50V
C1302
0.01U
C1303
100P
C1301
0.01U
L1300
15UH(COIL)
ZD1300
MBR340
R1300
6.8K
R1301
10K
R1302
22K
C1113
1000U/16V(KHS)
C1115
1000U/16V(KHS)
ST_5V
LED3
SAM2333
R1111
220
IC1101
SI4963
S1
G1
S2
G2
D1
D2
5V_B
C1200
470U/16V(DIP)
12V
C1202
470U/35V(KHS)
R1106
12K
Q1101
KTC3875
R1108
1K
R1107
C1109
LED1
SAM2333
R1114
220
LED4
SAM2333
R1115
220


AUDIO DELAY
AK4525
IC4002
RFS_5V
L4003
S-001(3216)
5V_B
L4000
S-001(3216)*
C4004
10U/35V(MHK)
C4024
470U/16V(MHK)
C4006
0.1U
C4001
10U/35V(MHK)
R4002
470
SPK_R_DELAY
R4000
100K
R4003
470
C4005
2200P
SPK_L_DELAY
R4001
100K
C4002
10U/35V(MHK)
C4008
2200P
C4012
C4011
0.1U
X4000
12.288MHz
C4003
15P
C4007
15P
R4005
47
R4006
47
R4007
VREFH
AINR+
AINR-
AINL+
AINL-
VA
AGND
XTI
XTO
DIF0
DIF1
LRCK
BCLK
SDTI
VCOM
AOUTR
AOUTL
CMODE
PDN
DGND
VD
MCKO
M/S
TST
DEM1
DEM0
SMUTE
SDTO
R4027
3K
C4015
10U/35V(MHK)
C4017
0.1U
R4033
470
R4032
470
SPK_R
SPK_L
R4100
0(RM/RT ONLY)
R4101
0(RM/RT ONLY)
C4016
0.1U
R4020
3K
R4013
R4014
R4015
R4016
R4017
R4018
R4019
R4023
R4024
47
SPK_DELAY_2.5
C4000
0.1U
C4014
0.1U
C4018
0.1U
C4019
0.1U
C4020
0.1U
OE
VCC
A
GND
Y
R4004
47
R4012
47
R4025
47
R4026
47
HD74LV1G125A
IC4000
IC4003
IC4004
IC4006
IC4005
SDI
LRI
SCK
VSS
VDD
SDO
COUNT[1]
COUNT[2]
NJU26501
L4001
S-001(3216)
5V_B_LIP
C4023
4.7U/35V(MHK)
C4021
0.1U
R4028
R4029
R4030
R4031
COUNT[1]
COUNT[0]
GND_D


AUDIO AMP
C122 10P
R137 82K
24V
R133 100K
R135 100K
C119 10U/16V(DIP)
C124 470U/35V(KM8)
SPK_R
C109 0.01U
R129 *
C112 4.7U/50V(DIP)
R131
(30")5.6K(25")5.6K(23")8.2K
30"/32" LIP 8.2K
C117 5600P
C114 2.2U
C118 0.1U
MP87720
IC101
C125 1U(3216)
C126 0.1U
5.2VZ D105
R139 10K
33UH(DIP)(4A UP)
L105
D101 SS14
C130 0.22U/50V(MPE)
C133 470U/35V(KM8)
C134 470U/35V(KM8)
R140 39
R142 39
R144 39
R146 39
C135 0.1U
JP39
JP36
P105 SPK R_OUT
NC
SPK R
24V
R106 150
D102 KDS181
R124 150
C108 47U/50V(DIP)
R107 150K
Q101 A1504Y
C107 2.2U
D103 KDS181
AMP_MUTE
R126 15K
R125 4.7K
Q100 C3875
R127 3.3K
C121 10P
R136 82K
24V
R132 100K
R134 100K
C120 10U/16V(DIP)
C123 470U/35V(KM8)
SPK_L
C110 0.01U
R128 *
C111 4.7U/50V(DIP)
R130
(30")5.6K(25")5.6K(23")8.2K
30"/32" LIP 8.2K
C116 5600P
C113 2.2U
C115 0.1U
MP87720
IC100
C125 1U(3216)
C127 0.1U
5.2VZ D104
R138 10K
33UH(DIP)(4A UP)
L104
D100 SS14
C129 0.22U/50V(MPE)
C131 470U/35V(KM8)
C132 470U/35V(KM8)
R141 39
R143 39
R145 39
R147 39
C136 0.1U
JP37
JP38
P106 SPK L_OUT
SPK L

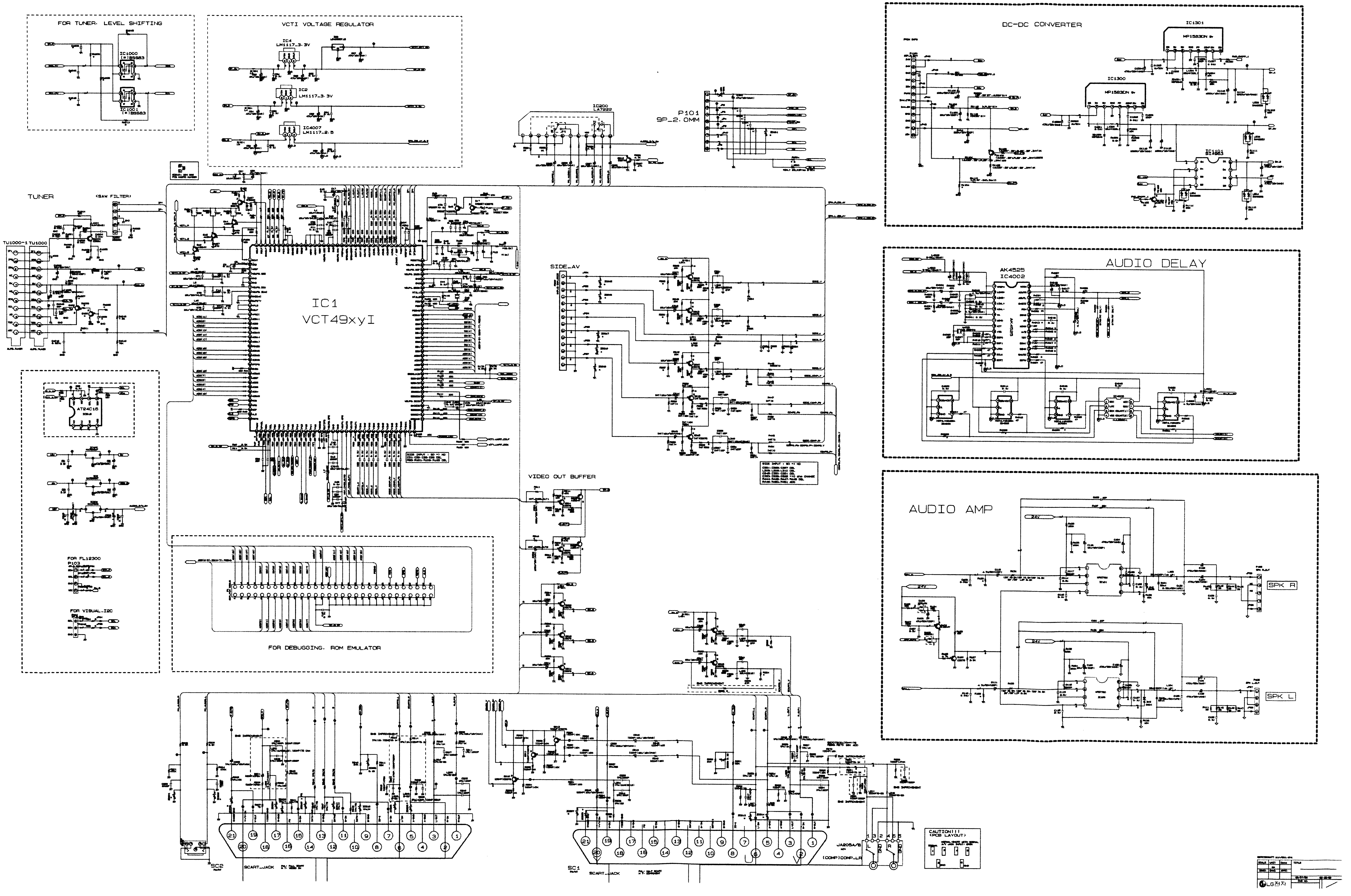

R853 (COMP)470K
)8-60
L212 (COMP)8-60
2
4
6
5
GND
R
GND

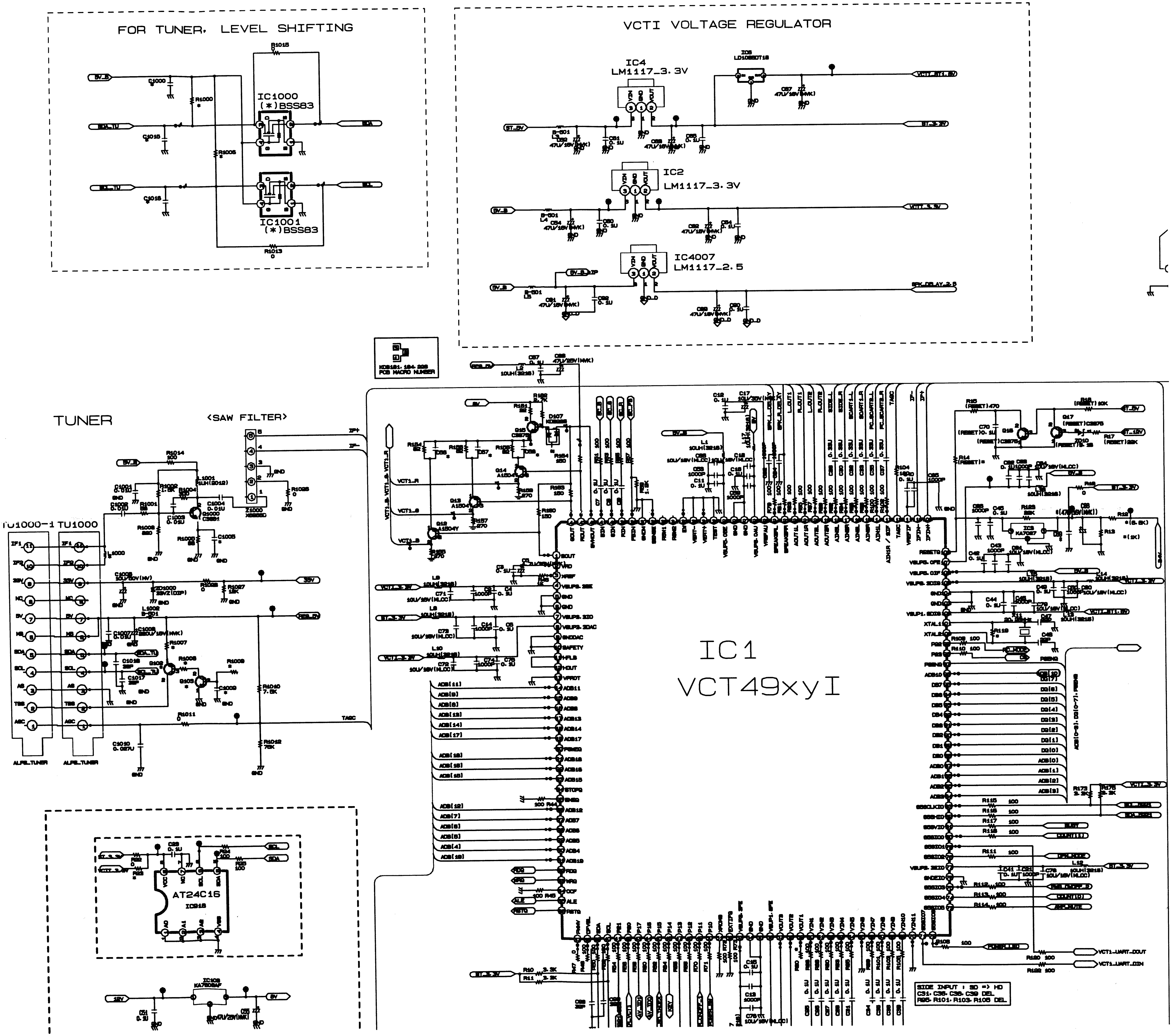

CAUTION!!!
<PCB LAYOUT>
NORMAL:SHORT WITH SIGNAL
A/V JACK INPUT: OPEN
SIGNAL
1
3
4
6
2
GND
5
GND

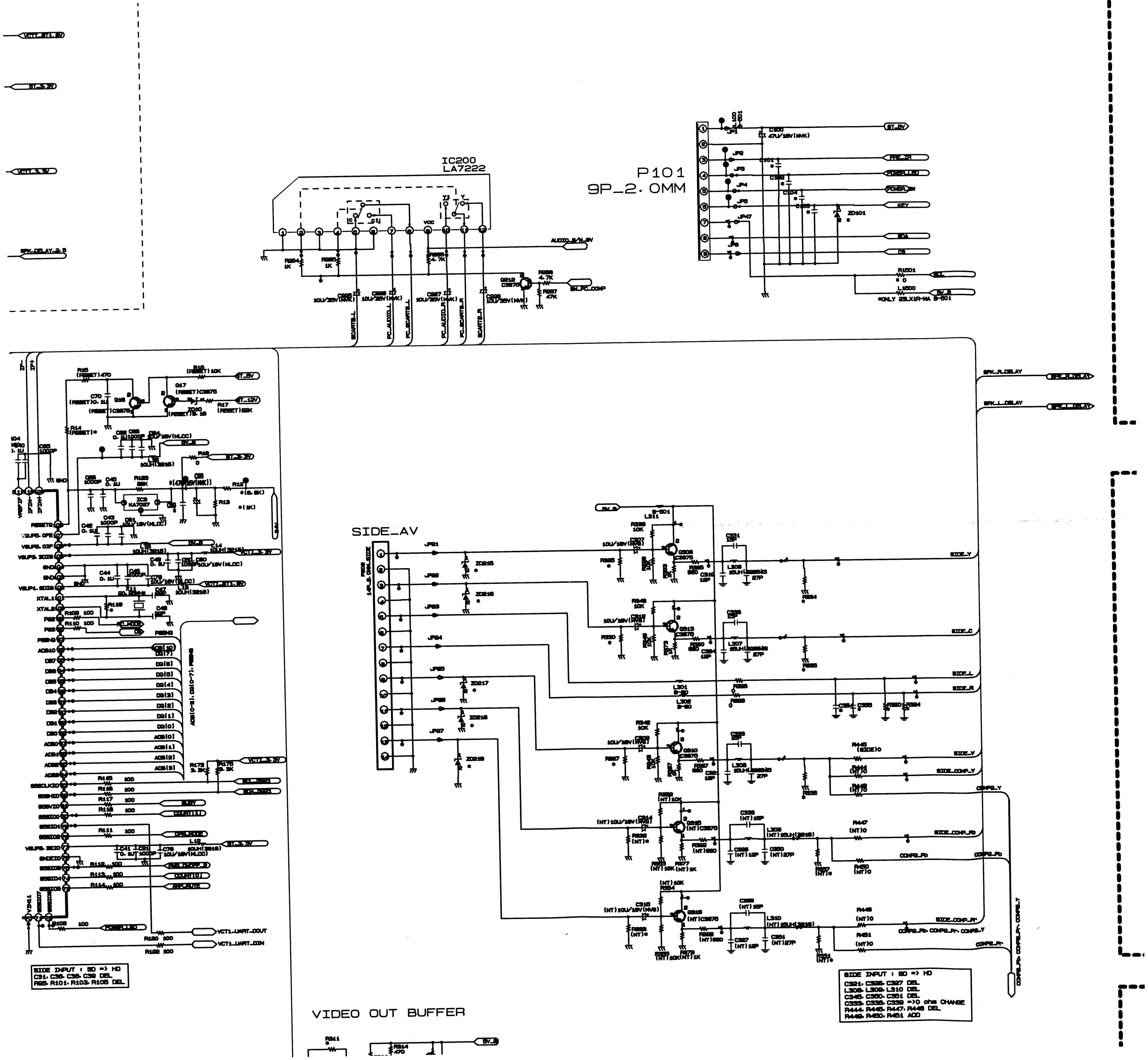
SS70TC29A15.cir/021.sht

SCALE	UNIT	Date	TITLE
	mm		
DSGD.	CHKD.	APPD.	
			05/07/25 03:44:13
LG전자			DWG NO.

ML041A
RZ-26LZ55

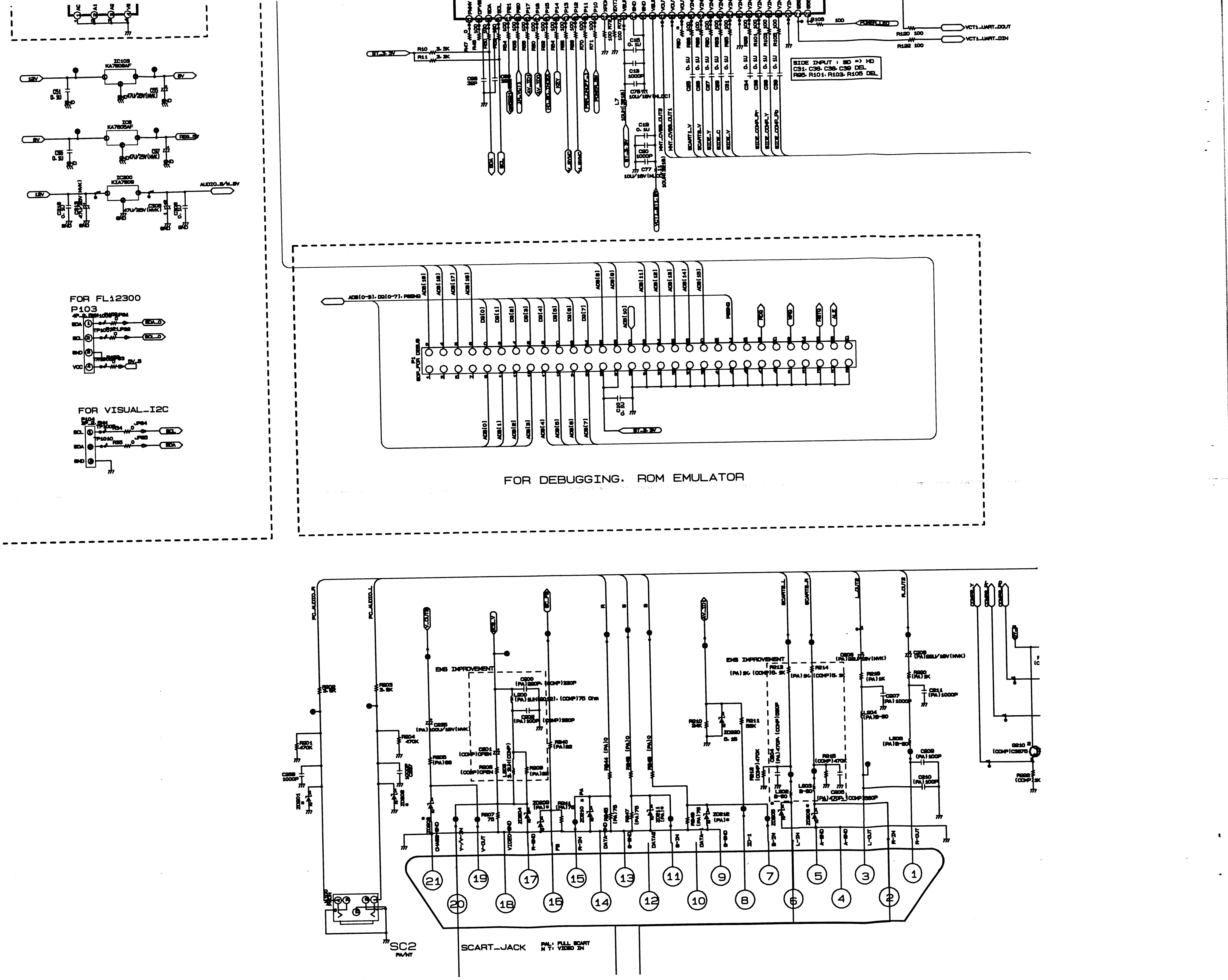

FOR TUNER· LEVEL SHIFTING
IC1000
IC1001
VCTI VOLTAGE REGULATOR
IC4
LM1117_3.3V
IC2
LM1117_3.3V
IC4007
LM1117_2.5
IC200
LA7222
P101
9P_2.0MM
DC-DC CONVERTER
IC1301
MP1583DN
IC1300
MP1583DN
IC1101
TUNER
<SAW FILTER>
TU1000-1
TU1000
IC1
VCT49xyI
SIDE_AV
AUDIO DELAY
AK4525
IC4002
AT24C16
VIDEO OUT BUFFER
AUDIO AMP
24V
SPK R
SPK L
FOR FL12300
P103
FOR VISUAL_I2C
FOR DEBUGGING, ROM EMULATOR
SC2
SCART_JACK
SC1
SCART_JACK
JA205A/B
(COMP)COMP_LR
CAUTION!!!
<PCB LAYOUT>
SCALE
UNIT
TITLE
DWG NO.
LG전자

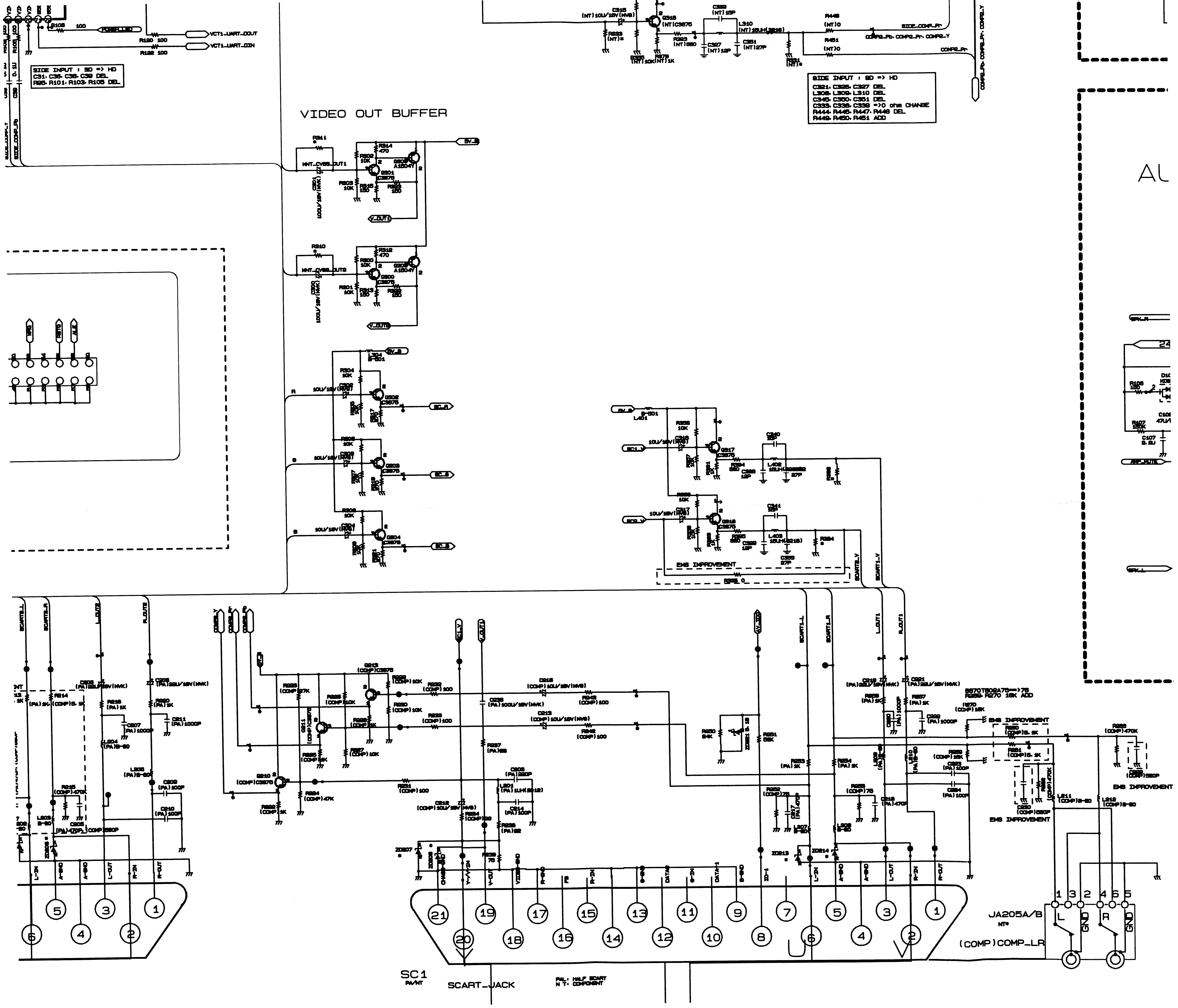

FOR TUNER, LEVEL SHIFTING
IC1000
(*)BSS83
IC1001
(*)BSS83
R1015
R1000
R1005
R1013
C1000
C1015
C1016
5V_S
SDA_TU
SCL_TU
SDA
SCL
VCTI VOLTAGE REGULATOR
IC4
LM1117_3.3V
IC5
LD1086DT18
VCTI_ST1.8V
ST_5V
ST_3.3V
IC2
LM1117_3.3V
VCTI_3.3V
5V_S
IC4007
LM1117_2.5
5V_S_VIP
SPK_DELAY_2.5
47U/16V(HVK)
0.1U
GND
GND_D
TUNER
<SAW FILTER>
Z1000
K6265D
IF+
IF-
TU1000-1
TU1000
IF1
IF2
33V
NC
5V
NS
SDA
SCL
AS
TSS
AGC
ALPS_TUNER
TAGC
RES_5V
Q1000
C3881
Q1002
Q1003
ZD1000
33V2(DIP)
L1002
B-601
R1040
7.5K
R1042
75K
C1010
0.027U
AT24C16
IC918
VCC
WC
SCL
SDA
A0
A1
A2
VSS
ST_3.3V
VCTI_3.3V
IC103
KA7808AF
12V
8V
47U/25V(HVK)
IC1
VCT49xyI
RESETQ
VSUP5.0FE
VSUP3.3IO
VSUP5.3DAC
XTAL1
XTAL2
ADB[0-9],DB[0-7],PSENQ
ALE
PSENQ
DB[0]
DB[1]
DB[2]
DB[3]
DB[4]
DB[5]
DB[6]
DB[7]
ADB[0]
ADB[1]
ADB[2]
ADB[3]
ADB[11]
ADB[9]
ADB[8]
ADB[13]
ADB[14]
ADB[17]
ADB[16]
ADB[15]
ADB[12]
ADB[7]
ADB[6]
ADB[5]
ADB[4]
ADB[10]
RDQ
WRQ
ALE
RSTQ
SCL_DDC
SDA_DDC
SUBT
COUNT[1]
OPN_MODE
ST_3.3V
RGB_DUMMY_S
COUNT[0]
AMP_MUTE
POWER_LED
VCT1_UART_DOUT
VCT1_UART_DIN
SIDE INPUT : SD => HD
C31, C36, C38, C39 DEL
R95, R101, R103, R105 DEL
KDS181, 184, 226
PCB MACRO NUMBER
Q15
C3875
Q14
A1504
Q13
A1504
Q12
A1504Y
D107
KDS226
IC3
KA7037
Q16
C3875
Q17
C3875
ZD10
(RESET)5.1B
VCT1_R
VCT1_G
VCT1_B
VCT1_3.3V
ST_3.3V
20.25MHz

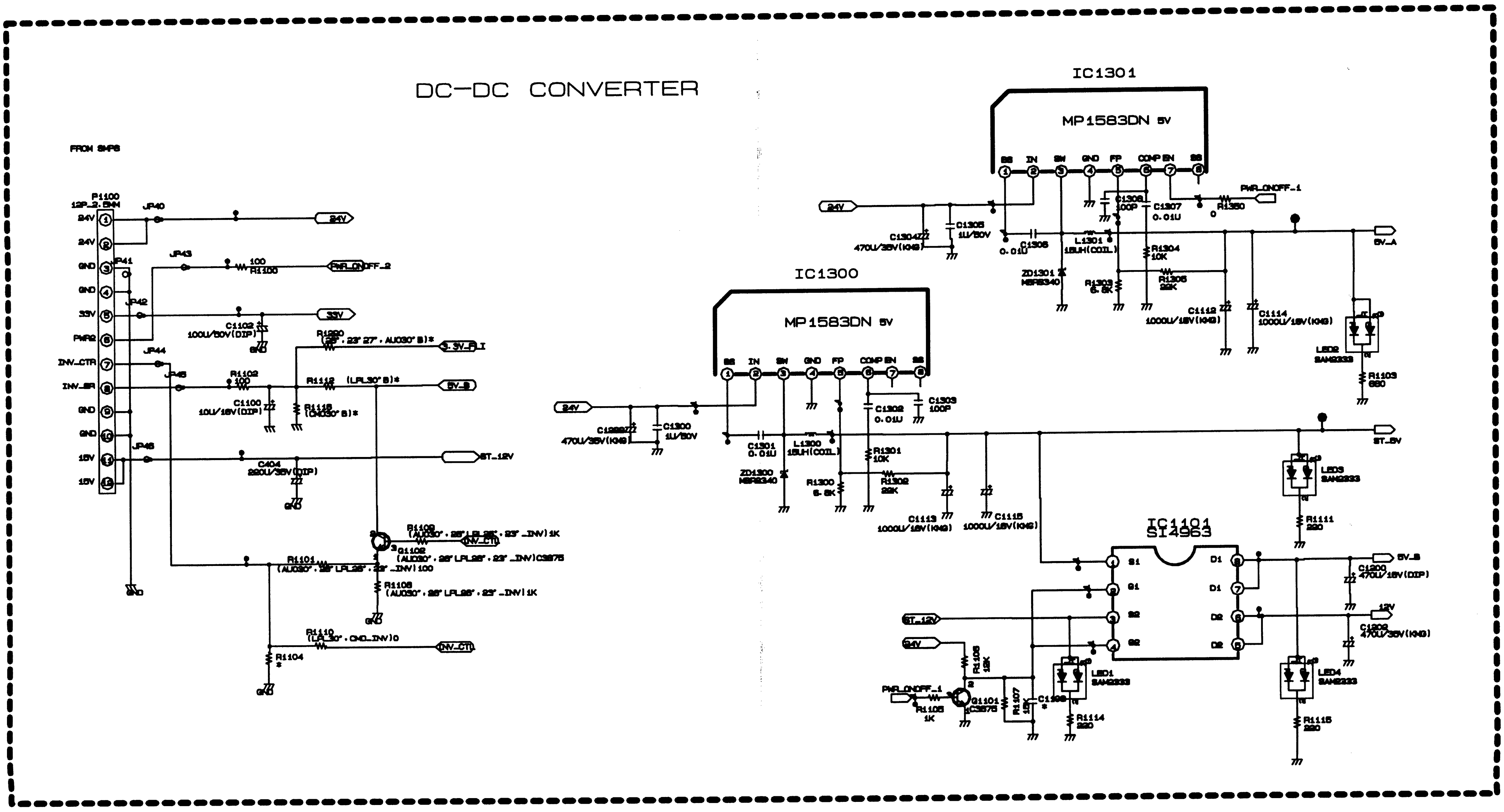

IC200
LA7222
P101
9P_2. 0MM
SIDE_AV
VIDEO OUT BUFFER
IC3
KA7027
ST_5V
ST_12V
ST_3.3V
VCT1_3.3V
PRE_IR
POWER_LED
POWER_SW
KEY
SDA
CS
SCL
5V_S
AUDIO_S/W_8V
SV_PC_COMP
SCARTS_L
PC_AUDIO_L
PC_SCARTS_L
PC_AUDIO_R
PC_SCARTS_R
SCARTS_R
SPK_DELAY_2.5
SPK_R_DELAY
SPK_L_DELAY
SIDE_Y
SIDE_C
SIDE_L
SIDE_R
SIDE_V
SIDE_COMP_Y
COMP2_Y
SIDE_COMP_Pb
COMP2_Pb
SIDE_COMP_Pr
COMP2_Pr
COMP2_Pb, COMP2_Pr, COMP2_Y
VCT1_UART_DOUT
VCT1_UART_DIN
POWER_LED
*ONLY 25LX1R-MA B-601

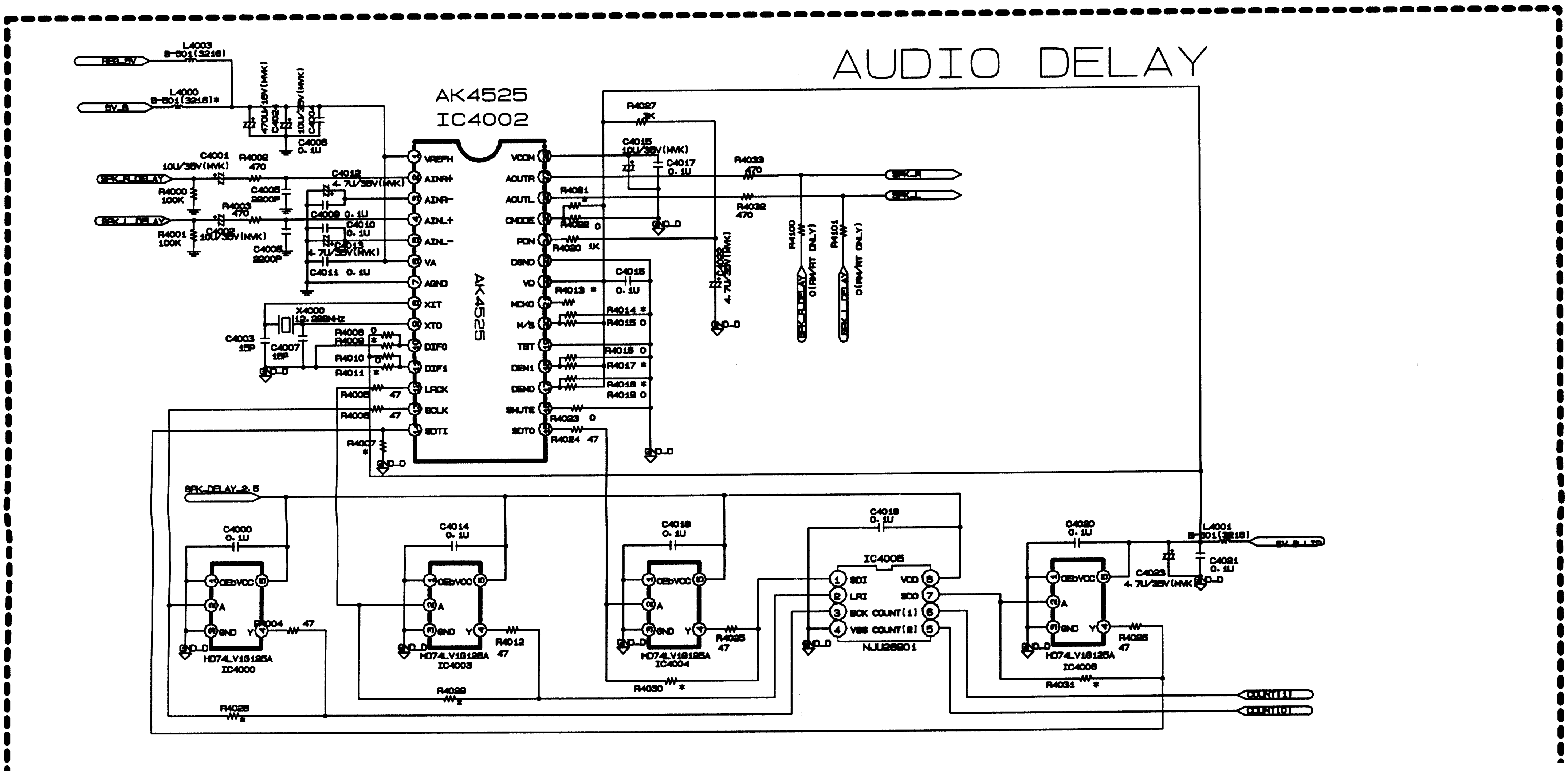
SIDE INPUT : SD => HD
C31, C36, C38, C39 DEL
R95, R101, R103, R105 DEL

SIDE INPUT : SD => HD
C321, C326, C327 DEL
L308, L309, L310 DEL
C346, C350, C351 DEL
C333, C338, C339 =>0 ohm CHANGE
R444, R445, R447, R448 DEL
R449, R450, R451 ADD

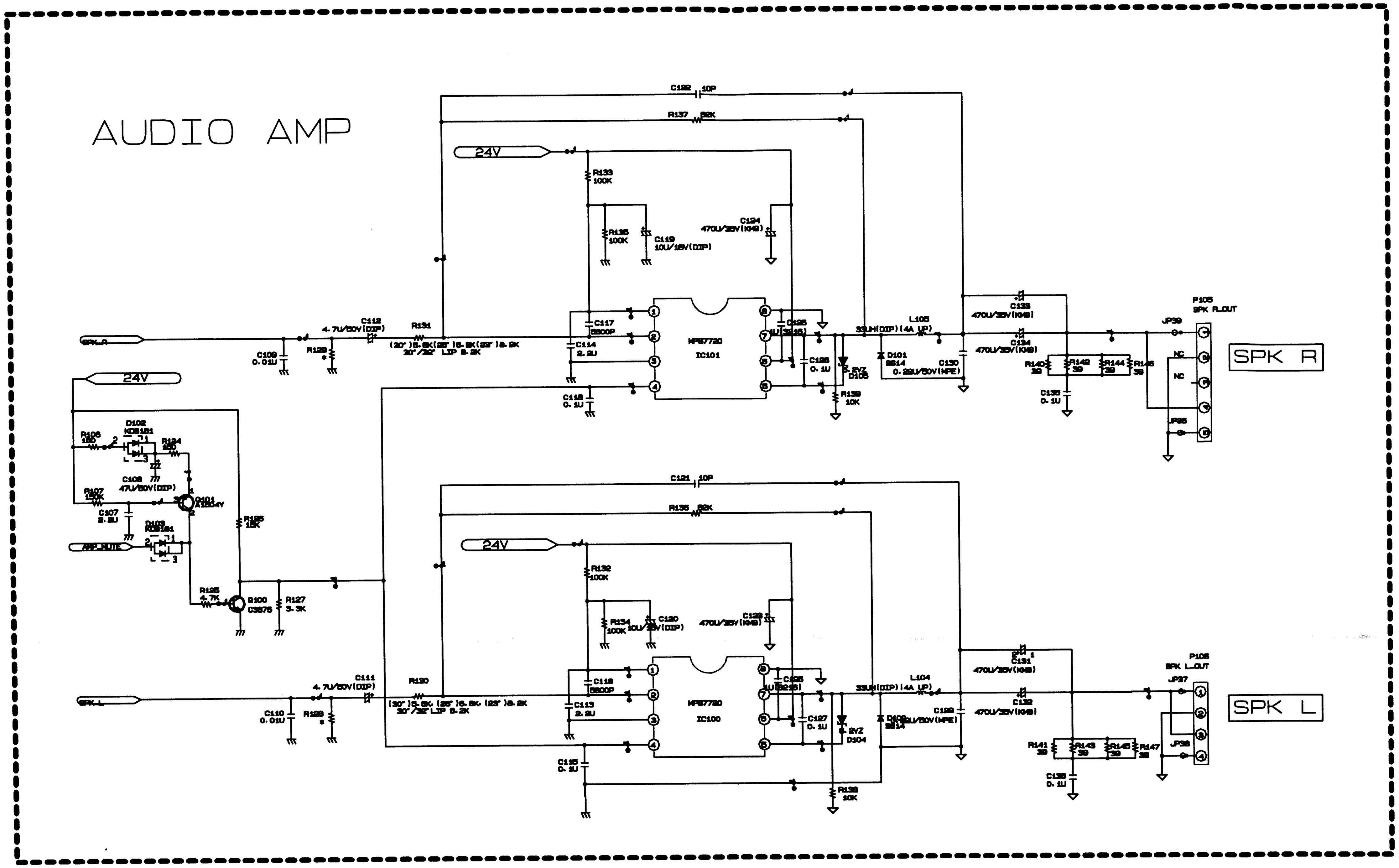

IC103
KA7809AF
12V
9V
C51
0.1U
C55
47U/25V(MVK)
GND
IC9
KA7805AF
REG_5V
C96
0.1U
C97
47U/25V(MVK)
IC200
KIA7809
AUDIO_S/W_9V
C308
47U/25V(MVK)
ST_3.3V
R10 3.3K
R11 3.3K
C15
0.1U
C13
1000P
C76
10U/16V(MLCC)
L7
C18
0.1U
C20
1000P
C77
10U/16V(MLCC)
SDA
SCL
R105 100
POWER_LED
VCT1_UART_DOUT
VCT1_UART_DIN
R120 100
R122 100
SIDE INPUT : SD => HD
C31, C36, C38, C39 DEL
R95, R101, R103, R105 DEL
SCART1_V
SCART2_V
SIDE_Y
SIDE_C
SIDE_V
SIDE_COMP_Pr
SIDE_COMP_Y
SIDE_COMP_Pb
FOR FL12300
P103
SDA
SCL
GND
VCC
SDA_0
SCL_0
5V_S
FOR VISUAL_I2C
P104
SCL
SDA
GND
ADB(0-21),DB(0-7),PSEN
ADB(0)
ADB(1)
ADB(2)
ADB(3)
ADB(4)
ADB(5)
ADB(6)
ADB(7)
DB(0)
DB(1)
DB(2)
DB(3)
DB(4)
DB(5)
DB(6)
DB(7)
ADB(8)
ADB(9)
ADB(10)
ADB(11)
ADB(12)
ADB(13)
ADB(14)
ADB(15)
ADB(16)
ADB(17)
ADB(18)
ADB(19)
PSEN
RD
WR
RSTO
ALE
C10
0.1U
ST_3.3V
FOR DEBUGGING. ROM EMULATOR
PC_AUDIO_R
PC_AUDIO_L
R202
3.9K
R203
3.9K
R201
470K
R204
470K
C258
1000P
ZD201
ZD202
V_OUT
SC_V
SC_FB
R
G
B
AV_ID
SCART_L
SCART_R
L_OUT2
R_OUT2
EMS IMPROVEMENT
C200
(PA)220P, (COMP)330P
L200
(PA)1UH(2012), (COMP)75 Ohm
C202
(PA)100P, (COMP)330P
C201
(COMP)OPEN
R206
(COMP)OPEN
C255
(PA)100U/16V(MVK)
R205
(PA)68
R207
75
R209
(PA)22
R210
(PA)22
ZD209
(PA)*
R241
(PA)75
ZD210 *
ZD211
(PA)*
ZD212
(PA)*
R244 (PA)0
R246 (PA)0
R248 (PA)0
R245
(PA)75
R247
(PA)75
R249
(PA)75
R210
24K
R211
39K
ZD220
5.1B
C208
(PA)22U/16V(MVK)
C209
(PA)22U/16V(MVK)
R213
(PA)1K (COMP)6.8K
R214
(PA)1K (COMP)6.8K
R219
(PA)1K
R220
(PA)1K
C207
(PA)1000P
C211
(PA)1000P
L204
(PA)B-60
L205
(PA)B-60
C209
(PA)100P
C210
(PA)100P
R212
(COMP)470K
C204
(COMP)470P
R216
(COMP)470K
L202
B-60
L203
B-60
C205
(PA)470P, COMP 330P
Q210
(COMP)C3575
R222
(COMP)1K
CHASS-GND
Y-/V-IN
V-OUT
VIDEO-GND
R-GND
FB
R-IN
DATA-GND
G-GND
DATA2
G-IN
DATA-1
B-GND
ID-1
B-IN
L-IN
A-GND
A-GND
L-OUT
R-IN
R-OUT
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
SC2
PA/NT
SCART_JACK
PAL: FULL SCART
N T: VIDEO IN

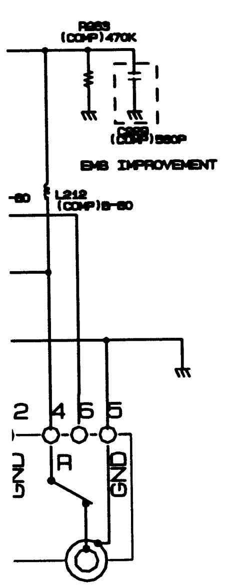

VIDEO OUT BUFFER
SIDE INPUT : SD => HD
C31. C36. C38. C39 DEL
R95. R101. R103. R105 DEL
SIDE INPUT : SD => HD
C321. C325. C327 DEL
L308. L309. L310 DEL
C345. C350. C351 DEL
C333. C338. C339 =>0 ohm CHANGE
R444. R445. R447. R448 DEL
R449. R450. R451 ADD
VCT1_UART_DOUT
VCT1_UART_DIN
SIDE_COMP_Pr
COMP2_Pb. COMP2_Pr. COMP2_Y
COMP2_Pr
MNT_CVBS_OUT1
MNT_CVBS_OUT2
5V_B
V_OUT1
V_OUT2
Q301 C3875
Q305 A1504Y
Q300 C3875
Q306 A1504Y
Q302 C3875
Q303 C3875
Q304 C3875
Q317 C3875
Q318 C3875
SC1_V
SC2_V
EMS IMPROVEMENT
SCART1_V
SCART2_V
SCART2_L
SCART2_R
L_OUT2
R_OUT2
SCART1_L
SCART1_R
L_OUT1
R_OUT1
Q213 (COMP)C3875
Q210 (COMP)C3875
B670TB02A75==>75
R269. R270 16K ADD
EMS IMPROVEMENT
L211 (COMP)B-80
L212 (COMP)B-80
1 3 2 4 6 5
L GND R GND
JA205A/B
NT*
(COMP)COMP_LR
21 19 17 15 13 11 9 7 5 3 1
20 18 16 14 12 10 8 6 4 2
SC1
PA/NT
SCART_JACK
PAL: HALF SCART
N T: COMPONENT
AU

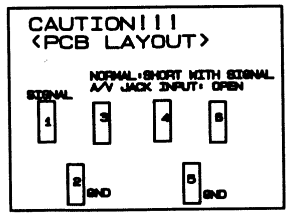

DC-DC CONVERTER
FROM SMPS
P1100
12P_2.5MM
24V
24V
GND
GND
33V
PWR2
INV_CTR
INV_ER
GND
GND
15V
15V
JP40
JP41
JP42
JP43
JP44
JP45
JP46
24V
100
R1100
PWR_ONOFF_2
33V
C1102
100U/50V(DIP)
GND
R1290
(26", 23" 27", AU030" B)*
3.3V_PLI
R1102
100
R1112 (LPL30" B)*
5V_B
C1100
10U/16V(DIP)
R1115
(CM030" B)*
C404
220U/35V(DIP)
ST_12V
R1109
(AU030", 26" LPL26", 23" _INV) 1K
INV_CTL
Q1102
(AU030", 26" LPL26", 23" _INV) C3875
R1101
(AU030", 26" LPL26", 23" _INV) 100
R1108
(AU030", 26" LPL26", 23" _INV) 1K
R1110
(LPL30", CMO_INV) 0
INV_CTL
R1104
*
GND
IC1301
MP1583DN 5V
SS
IN
SW
GND
FB
COMP
EN
SS
PWR_ONOFF_1
24V
C1304
470U/35V(KHG)
C1305
1U/50V
C1308
100P
C1307
0.01U
R1350
0
C1306
0.01U
L1301
15UH(COIL)
R1304
10K
ZD1301
MBRS340
R1303
6.8K
R1306
22K
C1112
1000U/16V(KHG)
C1114
1000U/16V(KHG)
5V_A
LED2
SAM2333
R1103
680
IC1300
MP1583DN 5V
SS
IN
SW
GND
FB
COMP
EN
SS
24V
C1299
470U/35V(KHG)
C1300
1U/50V
C1302
0.01U
C1303
100P
C1301
0.01U
L1300
15UH(COIL)
R1301
10K
ZD1300
MBRS340
R1300
6.8K
R1302
22K
C1113
1000U/16V(KHG)
C1115
1000U/16V(KHG)
ST_5V
LED3
SAM2333
R1111
220
IC1101
SI4963
S1
G1
S2
G2
D1
D1
D2
D2
5V_B
C1200
470U/16V(DIP)
12V
C1202
470U/35V(KHG)
ST_12V
24V
R1106
12K
PWR_ONOFF_1
R1105
1K
Q1101
C3875
R1107
12K
C1198
*
LED1
SAM2333
R1114
220
LED4
SAM2333
R1115
220


AUDIO DELAY
AK4525
IC4002
REG_5V
L4003
B-601(3216)
5V_B
L4000
B-601(3216)*
470U/16V(MVK)
C4021
10U/35V(MVK)
C4004
C4008
0.1U
C4001
10U/35V(MVK)
R4002
470
SPK_R_DELAY
R4000
100K
C4005
2200P
C4012
4.7U/35V(MVK)
R4003
470
C4009 0.1U
SPK_L_DELAY
C4002
10U/35V(MVK)
R4001
100K
C4010
0.1U
C4006
2200P
C4013
4.7U/35V(MVK)
C4011 0.1U
X4000
12.288MHz
C4003
15P
C4007
15P
GND_D
R4008 0
R4009 *
R4010 0
R4011 *
R4005 47
R4006 47
R4007
*
VREFH
AINR+
AINR-
AINL+
AINL-
VA
AGND
XTI
XTO
DIF0
DIF1
LRCK
SCLK
SDTI
VCOM
AOUTR
AOUTL
CMODE
PDN
DGND
VD
MCKO
M/S
TST
DEM1
DEM0
SMUTE
SDTO
AK4525
R4027
1K
C4015
10U/35V(MVK)
C4017
0.1U
R4021
*
R4022 0
R4020 1K
C4016
0.1U
R4013 *
R4014 *
R4015 0
R4016 0
R4017 *
R4018 *
R4019 0
R4023 0
R4024 47
R4033
470
R4032
470
SPK_R
SPK_L
C4022
4.7U/35V(MVK)
R4100
0(RH/RT ONLY)
R4101
0(RH/RT ONLY)
SPK_R_DELAY
SPK_L_DELAY
SPK_DELAY_2.5
C4000
0.1U
OEbVCC
A
GND
Y
R4004
47
HD74LV1G125A
IC4000
C4014
0.1U
R4012
47
HD74LV1G125A
IC4003
C4018
0.1U
R4025
47
HD74LV1G125A
IC4004
C4019
0.1U
IC4005
SDI
LRI
BCK
VSS
VDD
SDO
COUNT[1]
COUNT[2]
NJU26901
C4020
0.1U
L4001
B-601(3216)
5V_B_LTD
C4023
4.7U/35V(MVK)
C4021
0.1U
R4026
47
HD74LV1G125A
IC4006
R4029
*
R4030
*
R4031
*
R4028
*
COUNT[1]
COUNT[0]

AUDIO AMP


C122 10P
R137 82K
24V
R133 100K
R135 100K
C119 10U/16V(DIP)
C124 470U/35V(KMB)
SPK_R
C109 0.01U
R129 *
C112 4.7U/50V(DIP)
R131
(20")5.6K(26")6.8K(22")8.2K
30"/32" LIP 8.2K
C117 5600P
C114 2.2U
C118 0.1U
MP67720
IC101
C126 1U(3216)
C128 0.1U
5.2VZ D105
R139 10K
33UH(DIP)(4A UP)
L105
D101 SS14
C130 0.22U/50V(MPE)
C133 470U/35V(KMB)
C134 470U/35V(KMB)
R140 39
R142 39
R144 39
R146 39
C135 0.1U
P105 SPK R_OUT
JP39
NC
NC
JP36
SPK R
24V
R106 150
D102 KDS181
R124 150
C108 47U/50V(DIP)
R107 150K
Q101 A1504Y
C107 2.2U
R126 15K
D103 KDS181
AMP_MUTE
R125 4.7K
Q100 C3875
R127 3.3K
C121 10P
R136 82K
24V
R132 100K
R134 100K
C120 10U/16V(DIP)
C123 470U/35V(KMB)
SPK_L
C110 0.01U
R128 *
C111 4.7U/50V(DIP)
R130
(30")5.6K(26")6.8K(23")8.2K
30"/32" LIP 8.2K
C116 5600P
C113 2.2U
C115 0.1U
MP67720
IC100
C125 1U(3216)
C127 0.1U
5.2VZ D104
R138 10K
33UH(DIP)(4A UP)
L104
D100 SS14
C129 0.22U/50V(MPE)
C131 470U/35V(KMB)
C132 470U/35V(KMB)
R141 39
R143 39
R145 39
R147 39
C136 0.1U
P106 SPK L_OUT
JP37
JP38
SPK L


R263 (COMP)470K
C263 (COMP)560P
EMS IMPROVEMENT
-60
L212 (COMP)B-60
2
4
6
5
GND
R
GND


CAUTION!!!
<PCB LAYOUT>

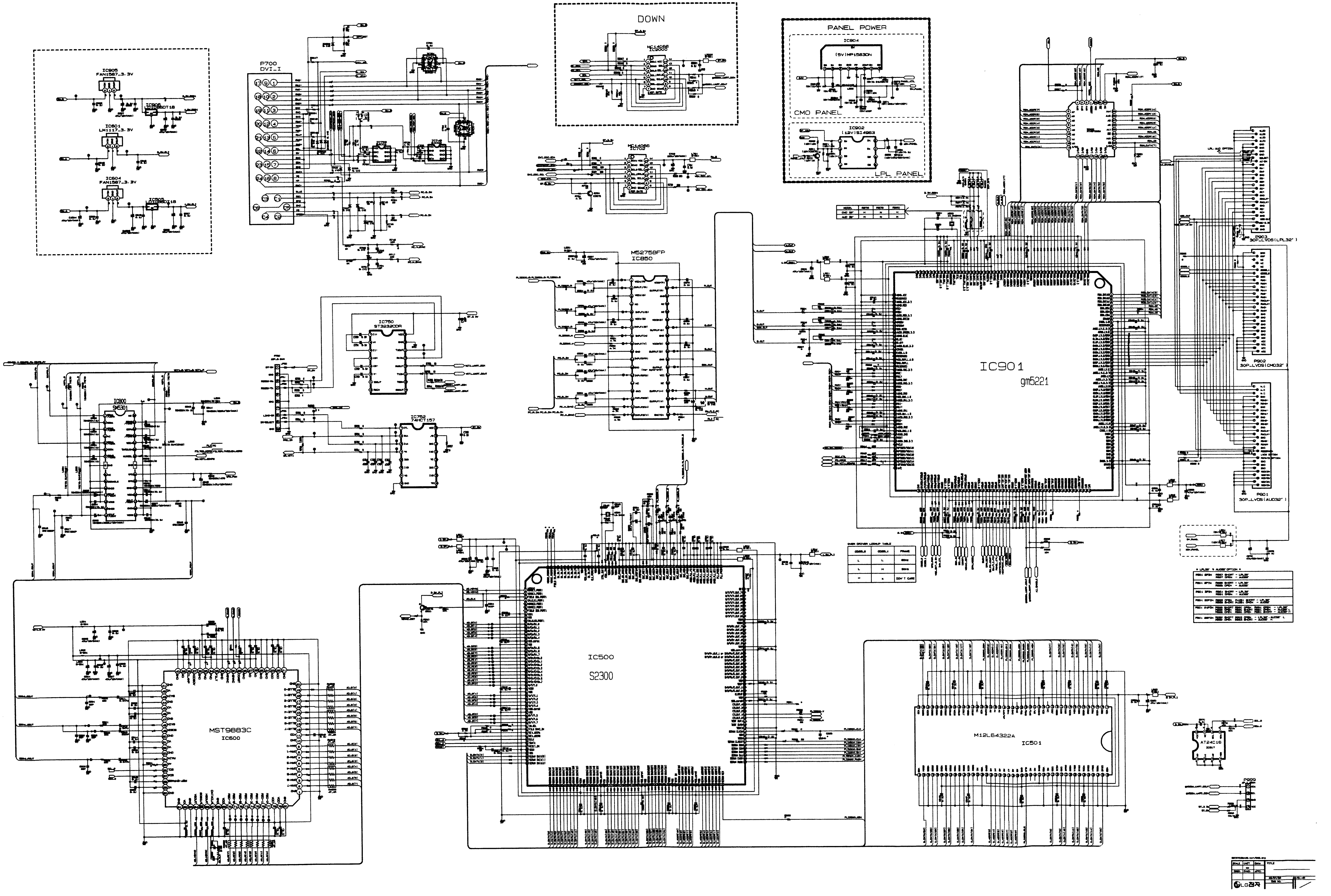
NORMAL: SHORT WITH SIGNAL
A/V JACK INPUT: OPEN

SIGNAL
1
3
4
6
2
GND
5
GND

6870T802A77.cir/021.sht

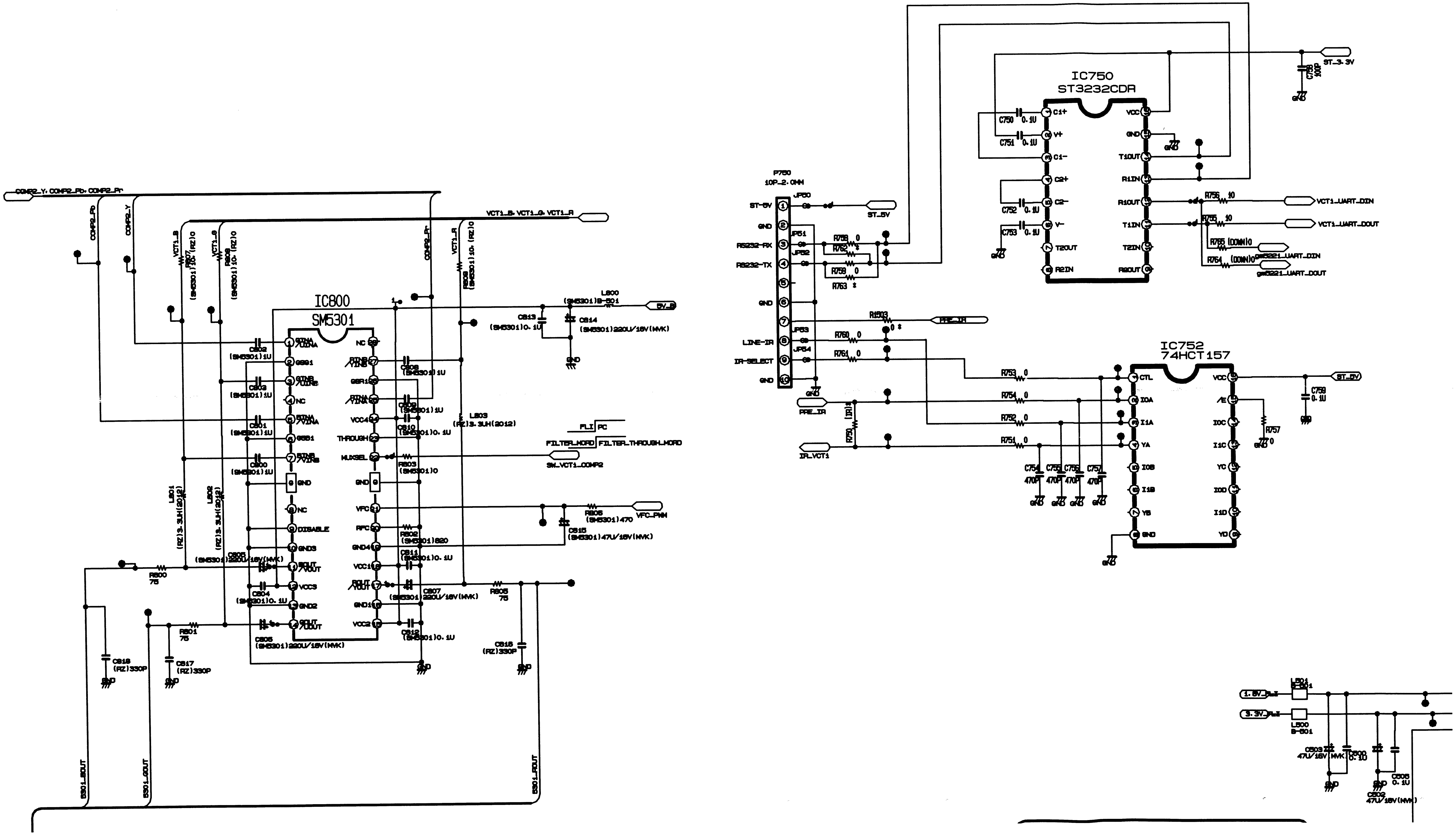
SCALE	UNIT	Date	TITLE	
	mm			
DSGD.	CHKD.	APPD.		
			05/07/25	03:25:58
LG전자			DWG NO.	

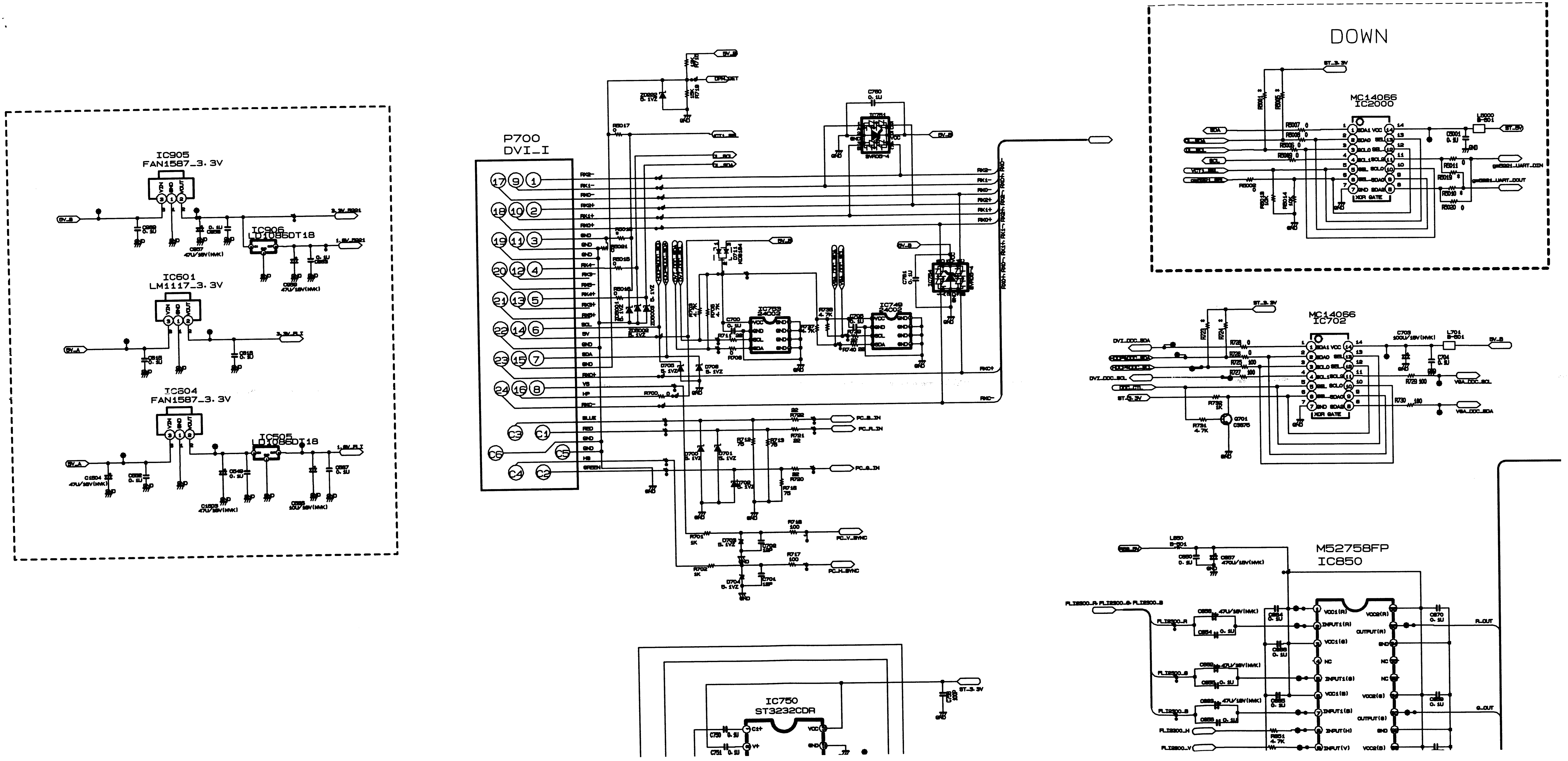
ML041A
RZ-23LZ55

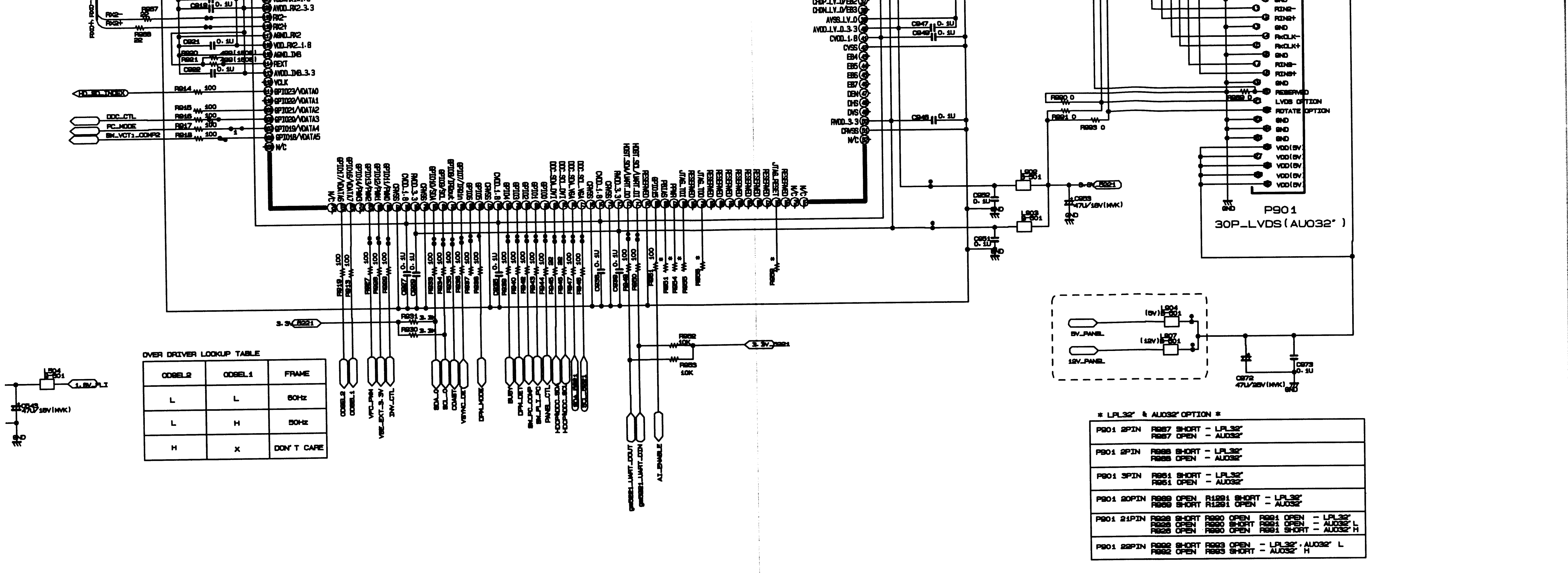

IC905
FAN1587_3.3V
IC906
LD1086DT18
IC601
LM1117_3.3V
IC604
FAN1587_3.3V
IC605
LD1086DT18
P700
DVI_I
DOWN
MC14066
IC703
MC14066
IC702
PANEL POWER
IC904
(5V)MP1583DN
CMO PANEL
IC902
(12V)SI4963
LPL PANEL
M52758FP
IC850
IC750
ST3232CDR
IC752
74HCT157
IC800
SM5301
IC901
gm5221
P903
30P_LVDS(LPL32")
P902
30P_LVDS(CMO32")
P901
30P_LVDS(AUO32")
MST9883C
IC600
IC500
S2300
M12L64322A
IC501
AT24C16
P999
LG전자

OVER DRIVER LOOKUP TABLE

ODSEL2	ODSEL1	FRAME
L	L	60Hz
L	H	50Hz
H	X	DON'T CARE


IC800
SM5301
COMP2_Y, COMP2_Pb, COMP2_Pr
VCT1_B, VCT1_G, VCT1_R
COMP2_Pb
COMP2_Y
COMP2_Pr
VCT1_B
VCT1_G
VCT1_R
R807 (SM5301)10 (RZ)0
R808 (SM5301)10 (RZ)0
R809 (SM5301)10 (RZ)0
GTINA /UINA
GSG1
GTINB /UINB
NC
BTINA /VINA
GSB1
BTINB /VINB
GND
NC
DISABLE
GND3
BOUT /VOUT
VCC3
GND2
GOUT /UOUT
NC
RTINB /YINB
GSR1
RTINA /YINA
VCC4
THROUGH
MUXSEL
GND
VFC
RFC
GND4
VCC1
ROUT /YOUT
GND1
VCC2
C802 (SM5301)1U
C803 (SM5301)1U
C801 (SM5301)1U
C800 (SM5301)1U
C808 (SM5301)1U
C809 (SM5301)1U
C810 (SM5301)0.1U
R803 (SM5301)0
R802 (SM5301)820
C811 (SM5301)0.1U
C807 (SM5301)220U/16V(MVK)
C812 (SM5301)0.1U
C804 (SM5301)0.1U
C805 (SM5301)220U/16V(MVK)
C806 (SM5301)220U/16V(MVK)
C813 (SM5301)0.1U
C814 (SM5301)220U/16V(MVK)
L800 (SM5301)B-501
5V_B
GND
L803 (RZ)3.3UH(2012)
L801 (RZ)3.3UH(2012)
L802 (RZ)3.3UH(2012)
FLI PC
FILTER_MODE FILTER_THROUGH_MODE
SW_VCT1_COMP2
R806 (SM5301)470
VFC_PWM
C815 (SM5301)47U/16V(MVK)
R800 75
R801 75
R805 75
C818 (RZ)330P
C817 (RZ)330P
C816 (RZ)330P
GND
5301_BOUT
5301_GOUT
5301_ROUT
IC750
ST3232CDR
C750 0.1U
C751 0.1U
C752 0.1U
C753 0.1U
C1+
V+
C1-
C2+
C2-
V-
T2OUT
R2IN
VCC
GND
T1OUT
R1IN
R1OUT
T1IN
T2IN
R2OUT
C758 100P
ST_3.3V
R756 10
R755 10
VCT1_UART_DIN
VCT1_UART_DOUT
R765 (DOWN)0
R764 (DOWN)0
gm5221_UART_DIN
gm5221_UART_DOUT
P750
10P_2.0MM
ST-5V
GND
RS232-RX
RS232-TX
GND
LINE-IR
IR-SELECT
GND
JP50
JP51
JP52
JP53
JP54
ST_5V
R758 0
R762 *
R759 0
R763 *
R1503
0 *
PRE_IR
R760 0
R761 0
R750 (IR)
IR_VCT1
IC752
74HCT157
R753 0
R754 0
R752 0
R751 0
CTL
I0A
I1A
YA
I0B
I1B
YB
GND
VCC
/E
I0C
I1C
YC
I0D
I1D
YD
C759 0.1U
R757 0
C754 470P
C755 470P
C756 470P
C757 470P
1.8V_FLI
3.3V_FLI
L501 B-501
L500 B-501
C503 47U/16V(MVK)
C500 0.1U
C505 0.1U
C502 47U/16V(MVK)


IC905
FAN1587_3.3V
IC906
LD1086DT18
IC601
LM1117_3.3V
IC604
FAN1587_3.3V
IC505
LD1086DT18
5V_S
5V_A
3.3V_S
1.8V_S
P700
DVI_I
IC753
24C02
IC749
24C02
IC751
SRV05-4
IC752
SRV05-4
IC750
ST3232CDR
DOWN
MC14066
IC2000
MC14066
IC702
M52758FP
IC850
PC_V_SYNC
PC_H_SYNC
PC_B_IN
PC_R_IN
PC_G_IN
ST_3.3V
XOR GATE
R_OUT
G_OUT

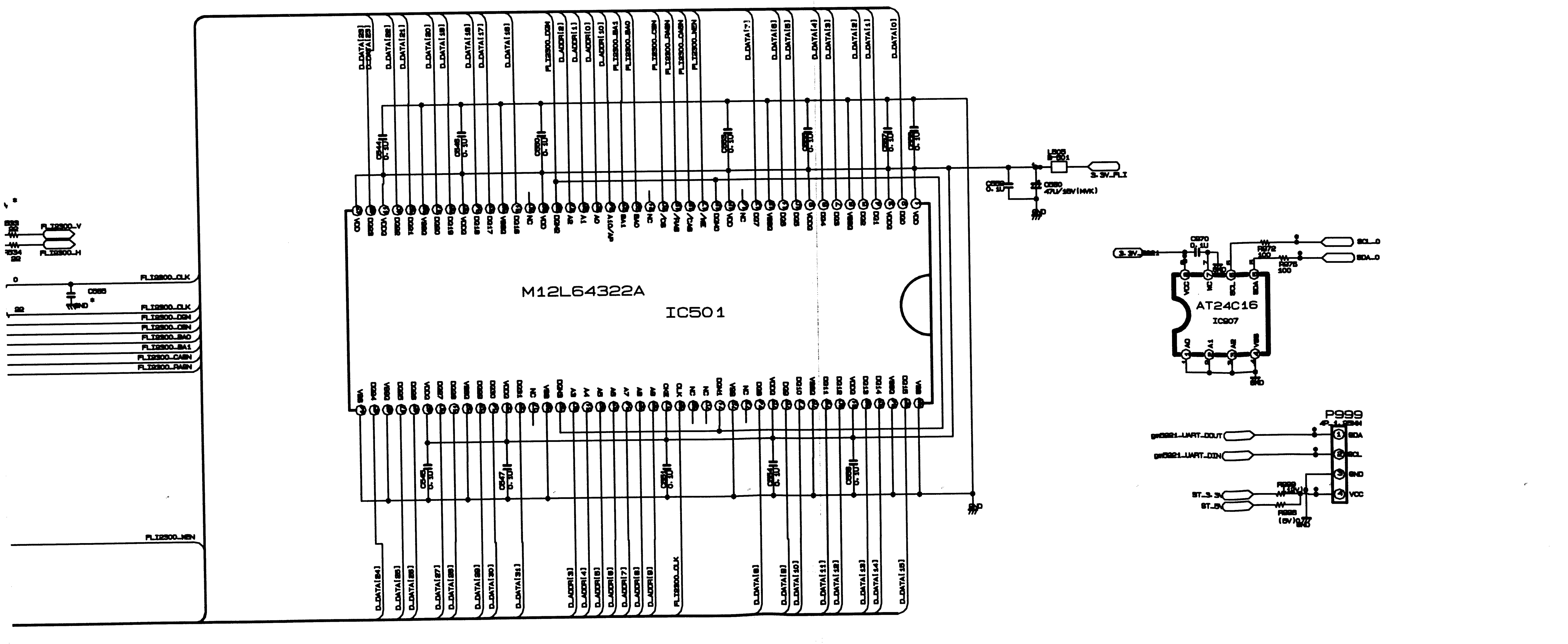

P901
30P_LVDS(AU032")
5V_PANEL
12V_PANEL
C972
47U/25V(HVK)
C973
0.1U
DDC_CTL
PC_MODE
SW_VCT1_COMP2
3.3V_B221
1.8V_FLI
ODSEL2
ODSEL1
AI_ENABLE

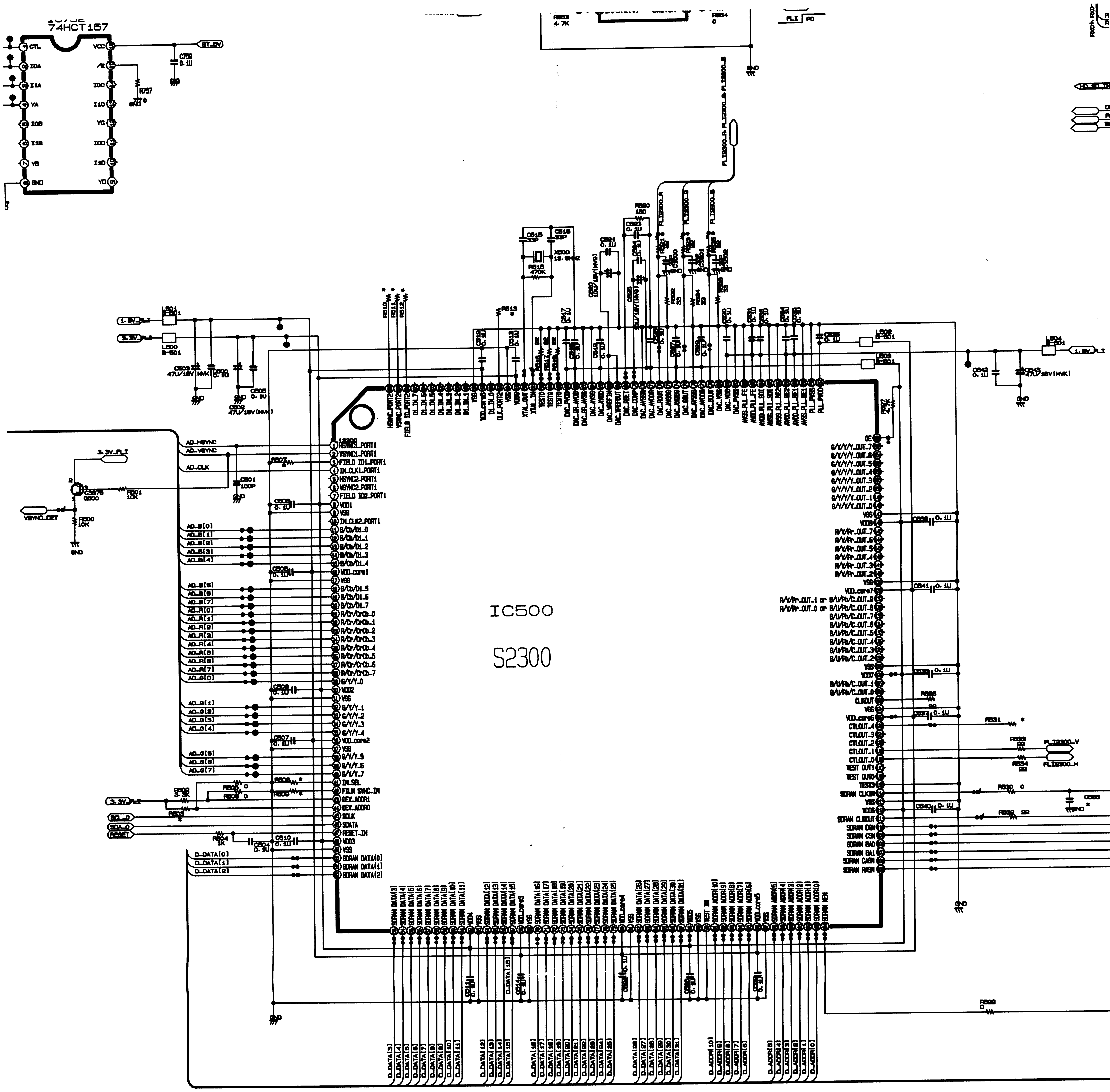
OVER DRIVER LOOKUP TABLE

ODSEL2	ODSEL1	FRAME
L	L	60Hz
L	H	50Hz
H	X	DON' T CARE

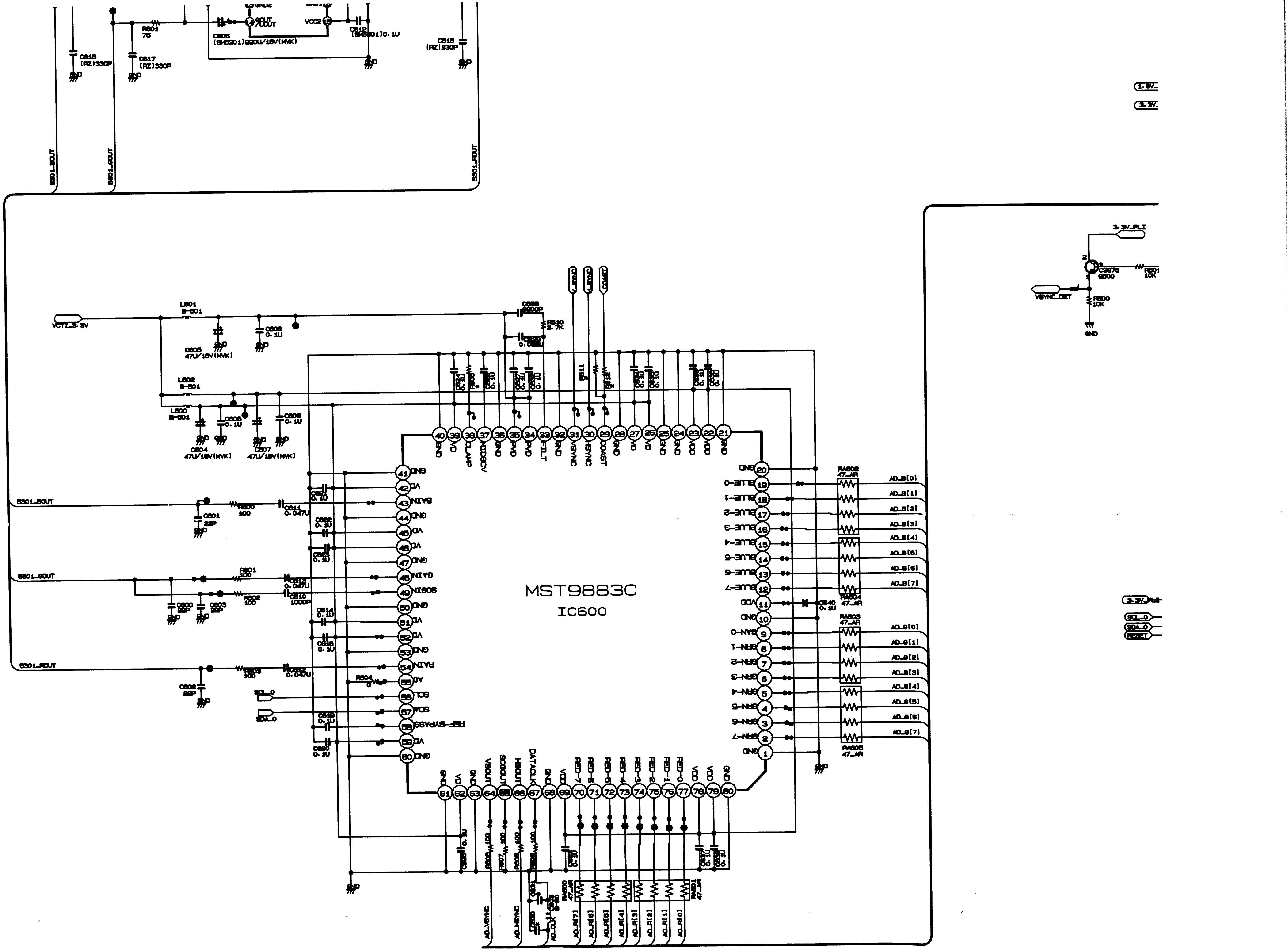
* LPL32" & AU032" OPTION *

P901 2PIN	R987 SHORT - LPL32" R987 OPEN - AU032"
P901 2PIN	R988 SHORT - LPL32" R988 OPEN - AU032"
P901 3PIN	R961 SHORT - LPL32" R961 OPEN - AU032"
P901 20PIN	R989 OPEN R1291 SHORT - LPL32" R989 SHORT R1291 OPEN - AU032"
P901 21PIN	R926 SHORT R990 OPEN R991 OPEN - LPL32" R926 OPEN R990 SHORT R991 OPEN - AU032" L R926 OPEN R990 OPEN R991 SHORT - AU032" H
P901 22PIN	R992 SHORT R993 OPEN - LPL32" · AU032" L R992 OPEN R993 SHORT - AU032" H

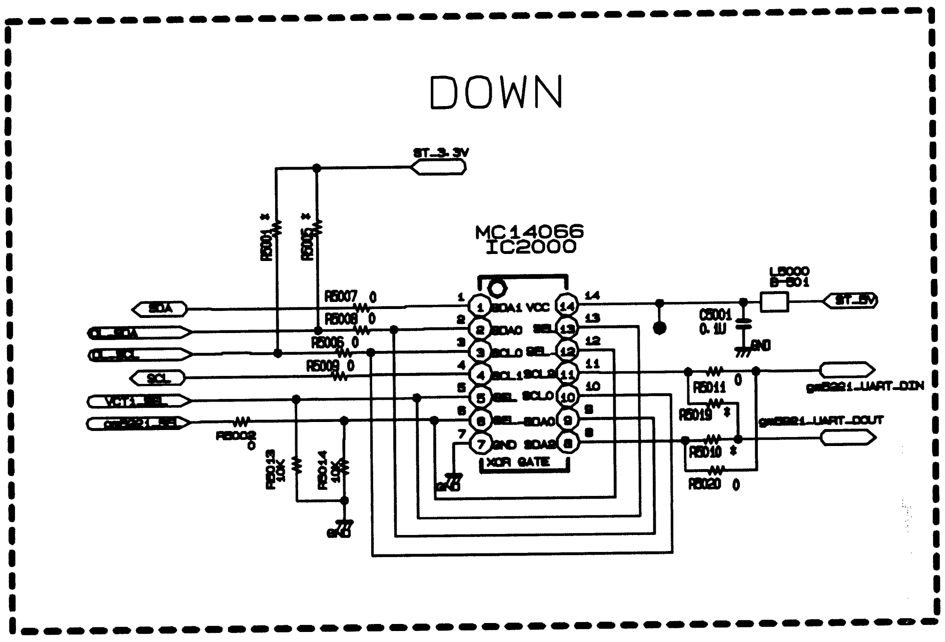

M12L64322A
IC501
AT24C16
IC907
P999
3.3V_FLI
SCL_0
SDA_0
FLI2300_CLK
FLI2300_WEN
ST_3.3V
ST_5V

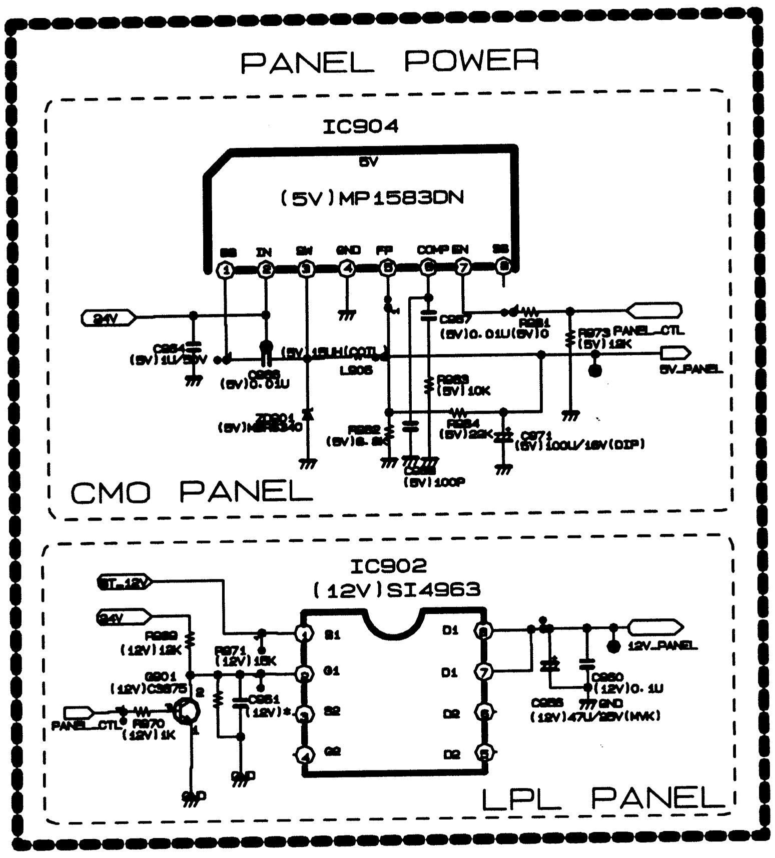


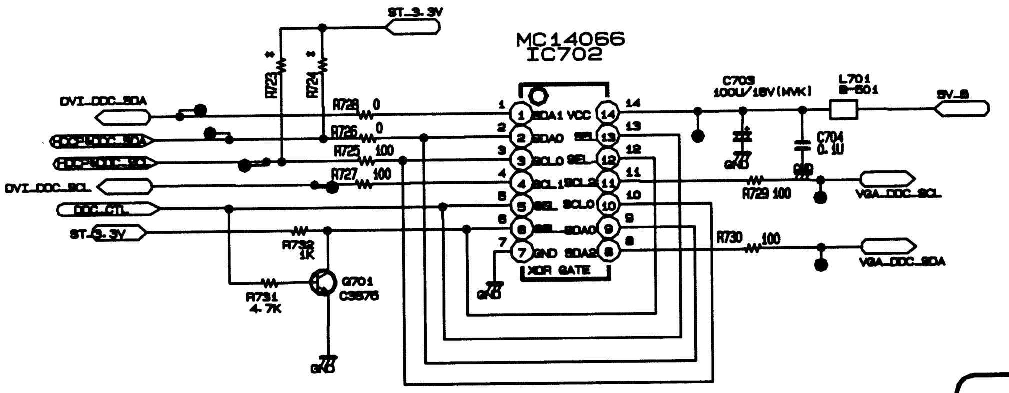
74HCT157
CTL
I0A
I1A
YA
I0B
I1B
YB
GND
VCC
/E
I0C
I1C
YC
I0D
I1D
YD
ST_5V
C759 0.1U
R757 270
R853 4.7K
R854 0
FLI
PC
FLI2300_A
FLI2300_B
FLI2300_A FLI2300_B FLI2300_B
C515 33P
C516 33P
X500 13.5MHZ
R515 470K
R580 150
C521 0.1U
C522 0.1U
C524 0.1U
R510
R511
R512
R513 *
1.8V_FLI
3.3V_FLI
L501 B-601
L500 B-601
C503 47U/16V NVK
C500 0.1U
C505 0.1U
C509 47U/16V(NVK)
C512 0.1U
C513 0.1U
C517 0.1U
R516 22
R517 22
R519 22
C518 0.1U
C519 0.1U
C530 0.1U
C531 0.1U
C533 0.1U
C534 0.1U
C535 0.1U
C536 0.1U
L502 B-601
L503 B-601
L504 B-601
C548 0.1U
C549 47U/16V(NVK)
R537 4.7K
HSYNC_PORT2
VSYNC_PORT2
FIELD ID_PORT2
D1_IN_7
D1_IN_6
D1_IN_5
D1_IN_4
D1_IN_3
D1_IN_2
D1_IN_1
VSS
VDD_core8
D1_IN_0
CLK_PORT2
VSS
VDD9
XTAL_OUT
XTAL_IN
TEST0
TEST0
TEST0
DAC_PVDD
DAC_GR_AVDD
DAC_GR_AVSS
DAC_AVSS
DAC_AVDD
DAC_VREFIN
DAC_VREFOUT
DAC_RSET
DAC_COMP
DAC_AVSSR
DAC_AVDDR
DAC_ROUT
DAC_AVSSG
DAC_AVDDG
DAC_GOUT
DAC_AVSSB
DAC_AVDDB
DAC_BOUT
DAC_VSS
DAC_VDD
DAC_PVSS
AVSS_PLL_FE
AVDD_PLL_FE
AVDD_PLL_SDI
AVSS_PLL_SDI
AVSS_PLL_BE2
AVDD_PLL_BE2
AVDD_PLL_BE1
AVSS_PLL_BE1
PLL_PVSS
PLL_PVDD
IC500
S2300
AD_HSYNC
AD_VSYNC
AD_CLK
3.3V_FLI
Q500
R501 10K
R500 10K
VSYNC_DET
R507 *
C501 100P
C502 0.1U
AD_B[0]
AD_B[1]
AD_B[2]
AD_B[3]
AD_B[4]
AD_B[5]
AD_B[6]
AD_B[7]
AD_R[0]
AD_R[1]
AD_R[2]
AD_R[3]
AD_R[4]
AD_R[5]
AD_R[6]
AD_R[7]
AD_G[0]
AD_G[1]
AD_G[2]
AD_G[3]
AD_G[4]
AD_G[5]
AD_G[6]
AD_G[7]
C506 0.1U
C508 0.1U
C507 0.1U
1 HSYNC1_PORT1
2 VSYNC1_PORT1
3 FIELD ID1_PORT1
4 IN_CLK1_PORT1
5 HSYNC2_PORT1
6 VSYNC2_PORT1
7 FIELD ID2_PORT1
8 VDD1
9 VSS
10 IN_CLK2_PORT1
11 B/Cb/D1_0
12 B/Cb/D1_1
13 B/Cb/D1_2
B/Cb/D1_3
B/Cb/D1_4
VDD_core1
VSS
B/Cb/D1_5
B/Cb/D1_6
B/Cb/D1_7
R/Cr/CrCb_0
R/Cr/CrCb_1
R/Cr/CrCb_2
R/Cr/CrCb_3
R/Cr/CrCb_4
R/Cr/CrCb_5
R/Cr/CrCb_6
R/Cr/CrCb_7
G/Y/Y_0
VDD2
VSS
G/Y/Y_1
G/Y/Y_2
G/Y/Y_3
G/Y/Y_4
VDD_core2
VSS
G/Y/Y_5
G/Y/Y_6
G/Y/Y_7
IN_SEL
FILM SYNC_IN
DEV_ADDR1
DEV_ADDR0
SCLK
SDATA
RESET_IN
VDD3
VSS
SDRAM DATA(0)
SDRAM DATA(1)
SDRAM DATA(2)
R502 3.3K
R505 0
R506 0
R508 *
R509 *
R503 *
R504 1K
C504 0.1U
C510 0.1U
SCL_0
SDA_0
RESET
D_DATA[0]
D_DATA[1]
D_DATA[2]
OE
G/Y/Y/Y_OUT_7
G/Y/Y/Y_OUT_6
G/Y/Y/Y_OUT_5
G/Y/Y/Y_OUT_4
G/Y/Y/Y_OUT_3
G/Y/Y/Y_OUT_2
G/Y/Y/Y_OUT_1
G/Y/Y/Y_OUT_0
VSS
VDD8
R/V/Pr_OUT_7
R/V/Pr_OUT_6
R/V/Pr_OUT_5
R/V/Pr_OUT_4
R/V/Pr_OUT_3
R/V/Pr_OUT_2
VSS
VDD_core7
R/V/Pr_OUT_1 or B/U/Pb/C_OUT_9
R/V/Pr_OUT_0 or B/U/Pb/C_OUT_8
B/U/Pb/C_OUT_7
B/U/Pb/C_OUT_6
B/U/Pb/C_OUT_5
B/U/Pb/C_OUT_4
B/U/Pb/C_OUT_3
B/U/Pb/C_OUT_2
VSS
VDD7
B/U/Pb/C_OUT_1
B/U/Pb/C_OUT_0
CLKOUT
VSS
VDD_core6
CTLOUT_4
CTLOUT_3
CTLOUT_2
CTLOUT_1
CTLOUT_0
TEST OUT1
TEST OUT0
TEST3
SDRAM CLKIN
VSS
VDD6
SDRAM CLKOUT
SDRAM DQM
SDRAM CSN
SDRAM BA0
SDRAM BA1
SDRAM CASN
SDRAM RASN
C539 0.1U
C541 0.1U
C538 0.1U
C537 0.1U
C540 0.1U
R535 22
R531 *
R533 22
R534 22
FLI2300_V
FLI2300_H
R530 0
R532 22
C565 *
SDRAM DATA(3)
SDRAM DATA(4)
SDRAM DATA(5)
SDRAM DATA(6)
SDRAM DATA(7)
SDRAM DATA(8)
SDRAM DATA(9)
SDRAM DATA(10)
SDRAM DATA(11)
VDD4
VSS
SDRAM DATA(12)
SDRAM DATA(13)
SDRAM DATA(14)
SDRAM DATA(15)
VDD_core3
VSS
SDRAM DATA(16)
SDRAM DATA(17)
SDRAM DATA(18)
SDRAM DATA(19)
SDRAM DATA(20)
SDRAM DATA(21)
SDRAM DATA(22)
SDRAM DATA(23)
SDRAM DATA(24)
SDRAM DATA(25)
VDD_core4
VSS
SDRAM DATA(26)
SDRAM DATA(27)
SDRAM DATA(28)
SDRAM DATA(29)
SDRAM DATA(30)
SDRAM DATA(31)
VDD5
VSS
TEST_IN
SDRAM ADDR(10)
SDRAM ADDR(9)
SDRAM ADDR(8)
SDRAM ADDR(7)
SDRAM ADDR(6)
VDD_core5
VSS
SDRAM ADDR(5)
SDRAM ADDR(4)
SDRAM ADDR(3)
SDRAM ADDR(2)
SDRAM ADDR(1)
SDRAM ADDR(0)
SDRAM WEN
C511 0.1U
C514 0.1U
C520 0.1U
C526 0.1U
C529 0.1U
R529 0
D_DATA[3]
D_DATA[4]
D_DATA[5]
D_DATA[6]
D_DATA[7]
D_DATA[8]
D_DATA[9]
D_DATA[10]
D_DATA[11]
D_DATA[12]
D_DATA[13]
D_DATA[14]
D_DATA[15]
D_DATA[16]
D_DATA[17]
D_DATA[18]
D_DATA[19]
D_DATA[20]
D_DATA[21]
D_DATA[22]
D_DATA[23]
D_DATA[24]
D_DATA[25]
D_DATA[26]
D_DATA[27]
D_DATA[28]
D_DATA[29]
D_DATA[30]
D_DATA[31]
D_ADDR[10]
D_ADDR[9]
D_ADDR[8]
D_ADDR[7]
D_ADDR[6]
D_ADDR[5]
D_ADDR[4]
D_ADDR[3]
D_ADDR[2]
D_ADDR[1]
D_ADDR[0]
GND



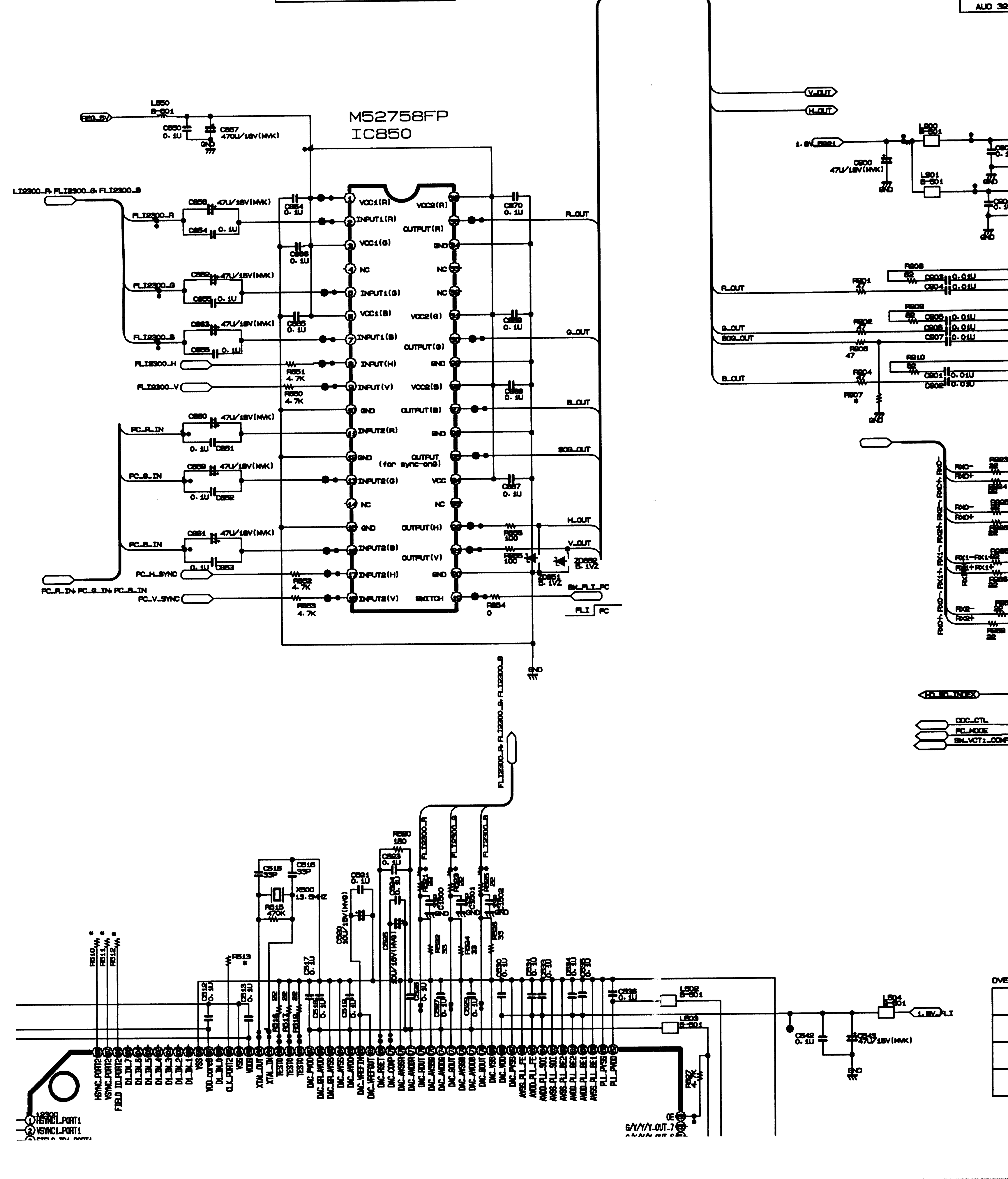
MST9883C
IC600
R801 75
C805 (SM5301)220U/16V(MVK)
C812 (SM5301)0.1U
C818 (RZ)330P
C817 (RZ)330P
C816 (RZ)330P
5301_BOUT
5301_GOUT
5301_ROUT
1.8V
3.3V
3.3V_FLI
C3875 Q600
R601 10K
R600 10K
VSYNC_DET
GND
VCT1_3.3V
L801 B-501
L802 B-501
L800 B-501
C805 47U/16V(MVK)
C808 0.1U
C804 47U/16V(MVK)
C806 0.1U
C807 47U/16V(MVK)
C809 0.1U
C826 8200P
R810 2.7K
C827 0.082U
R800 100
C811 0.047U
C801 22P
R801 100
C813 0.047U
R802 100
C810 1000P
C800 22P
C803 22P
R803 100
C812 0.047U
C802 22P
R804 0
SCL_0
SDA_0
RESET
C819 0.1U
C820 0.1U
C840 0.1U
RA802 47_AR
RA804 47_AR
RA803 47_AR
RA805 47_AR
RA800 47_AR
RA801 47_AR
AD_B[0]
AD_B[1]
AD_B[2]
AD_B[3]
AD_B[4]
AD_B[5]
AD_B[6]
AD_B[7]
AD_G[0]
AD_G[1]
AD_G[2]
AD_G[3]
AD_G[4]
AD_G[5]
AD_G[6]
AD_G[7]
AD_VSYNC
AD_HSYNC
AD_CLK
AD_R[7]
AD_R[6]
AD_R[5]
AD_R[4]
AD_R[3]
AD_R[2]
AD_R[1]
AD_R[0]
R806 100
R807 100
R808 100
R809 100
VSYNC
HSYNC
COAST
GND
VD
CLAMP
MIDSCV
PVD
FILT
VDD
BLUE-0
BLUE-1
BLUE-2
BLUE-3
BLUE-4
BLUE-5
BLUE-6
BLUE-7
GRN-0
GRN-1
GRN-2
GRN-3
GRN-4
GRN-5
GRN-6
GRN-7
BAIN
GAIN
SOGIN
RAIN
A0
SCL
SDA
REF-BYPASS
VSOUT
SOGOUT
HSOUT
DATACK
RED-7
RED-6
RED-5
RED-4
RED-3
RED-2
RED-1
RED-0

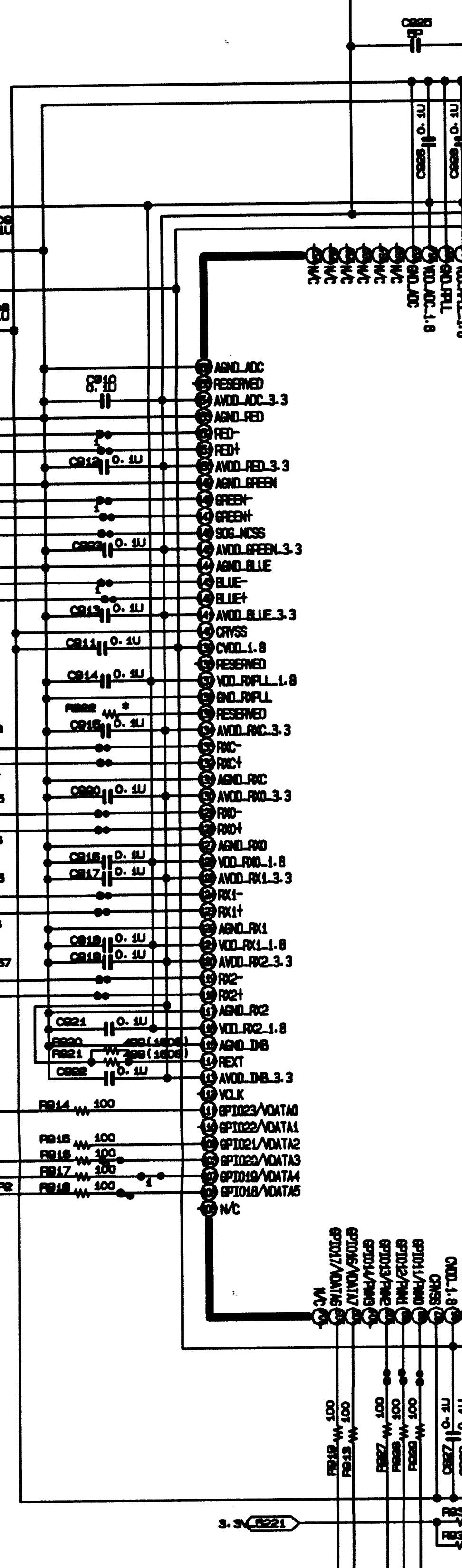

DOWN
MC14066
IC2000
ST_3.3V
ST_5V
XOR GATE
gm5221_UART_DIN
gm5221_UART_DOUT


PANEL POWER
IC904
(5V)MP1583DN
CMO PANEL
IC902
(12V)SI4963
LPL PANEL
24V
ST_12V
PANEL_CTL
5V_PANEL
12V_PANEL


MC14066
IC702
XOR GATE
ST_3.3V
DVI_DDC_SDA
DVI_DDC_SCL
DDC_CTL
VGA_DDC_SCL
VGA_DDC_SDA
Q701
C3875

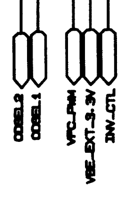
MODEL	R978	R979	R980
CMO 32"	H	M	H
AUO 32"	H	M	M

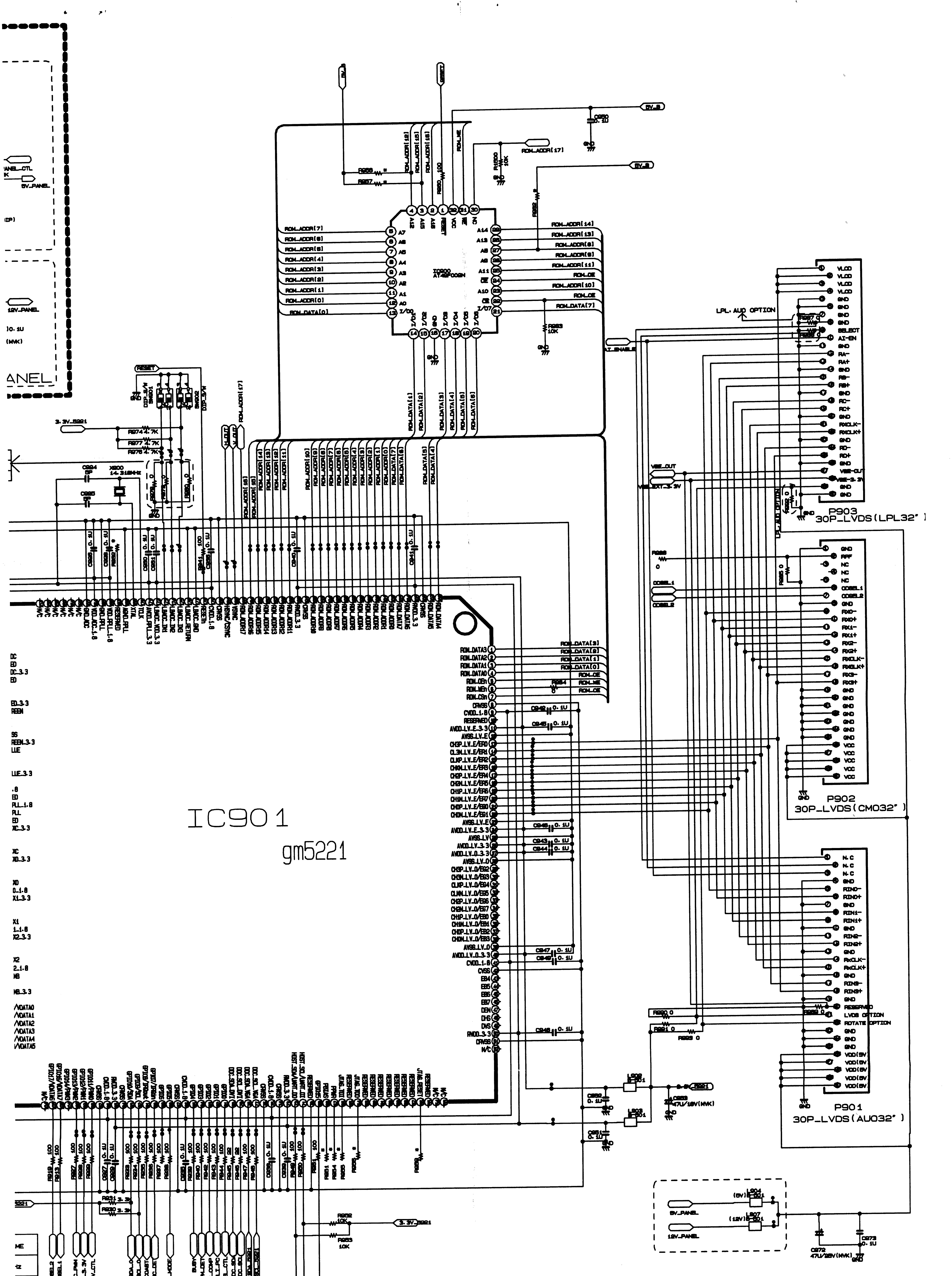

M52758FP
IC850
R_OUT
G_OUT
B_OUT
SOG_OUT
H_OUT
V_OUT
PC_R_IN
PC_G_IN
PC_B_IN
PC_H_SYNC
PC_V_SYNC
FLI2300_R
FLI2300_G
FLI2300_B
FLI2300_H
FLI2300_V
SW_FLI_PC
FLI
PC
X500
13.5MHZ
U300
1.8V_FLI


AGND_ADC
RESERVED
AVDD_ADC_3.3
AGND_RED
RED-
RED+
AVDD_RED_3.3
AGND_GREEN
GREEN-
GREEN+
SOG_MCSG
AVDD_GREEN_3.3
AGND_BLUE
BLUE-
BLUE+
AVDD_BLUE_3.3
CRVSS
CVDD_1.8
RESERVED
VDD_RPLL_1.8
GND_RPLL
RESERVED
AVDD_RXC_3.3
RXC-
RXC+
AGND_RXC
AVDD_RX0_3.3
RX0-
RX0+
AGND_RX0
VDD_RX0_1.8
AVDD_RX1_3.3
RX1-
RX1+
AGND_RX1
VDD_RX1_1.8
AVDD_RX2_3.3
RX2-
RX2+
AGND_RX2
VDD_RX2_1.8
AGND_DVI
REXT
AVDD_DVI_3.3
VCLK
GPIO23/VDATA0
GPIO22/VDATA1
GPIO21/VDATA2
GPIO20/VDATA3
GPIO19/VDATA4
GPIO18/VDATA5
N/C
DDC_CTL
PC_MODE
SW_VCT1_COMP2
1.8V_5221
V_OUT
H_OUT
R_OUT
G_OUT
SOG_OUT
B_OUT

OVER DRIVER LOOKUP TABLE

ODSEL2	ODSEL1	FRAME
L	L	60Hz
L	H	50Hz
H	X	DON' T CARE

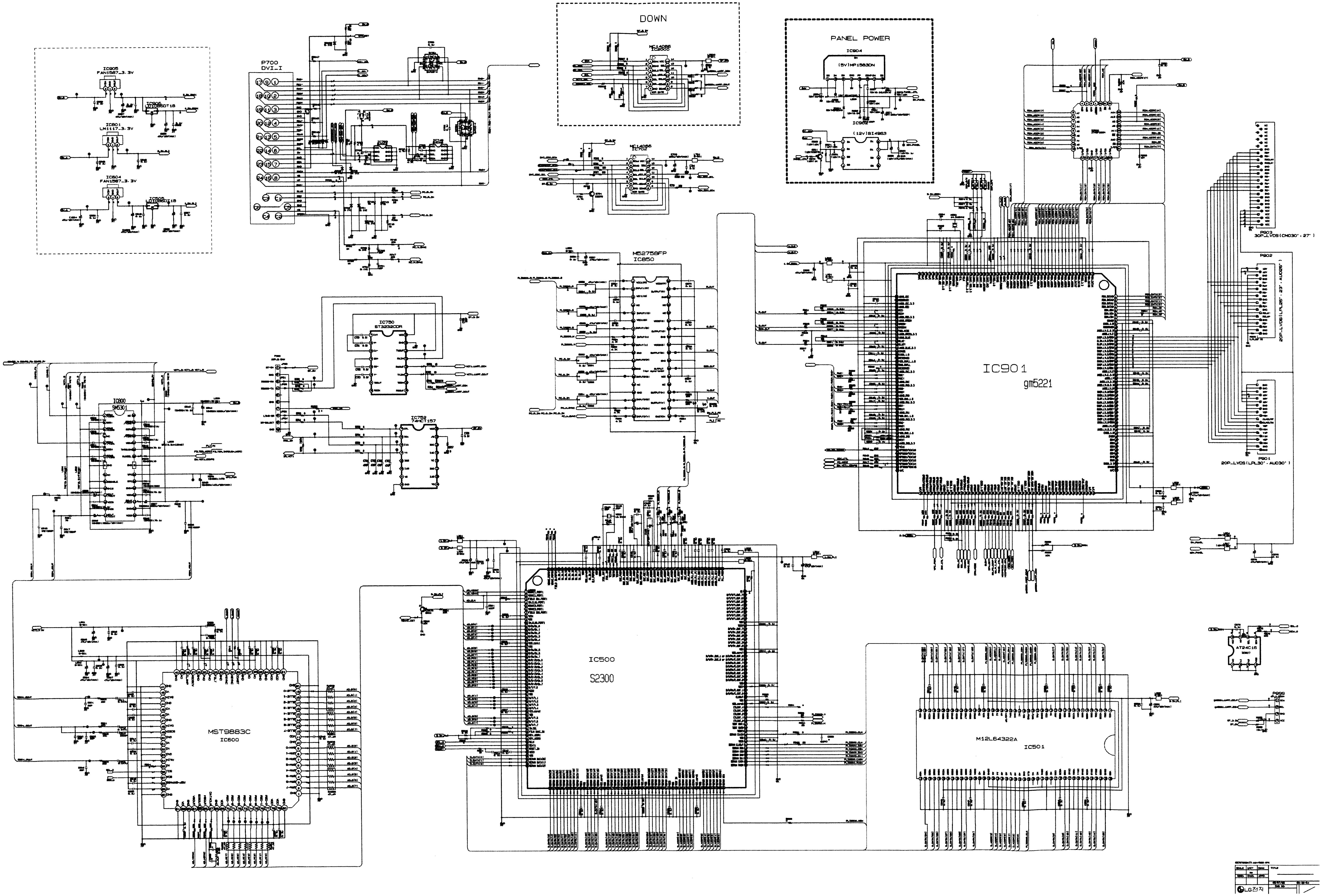

3.3V_5221
ODSEL2
ODSEL1
VPC_PWM
VBE_EXT_3.3V
INV_CTL

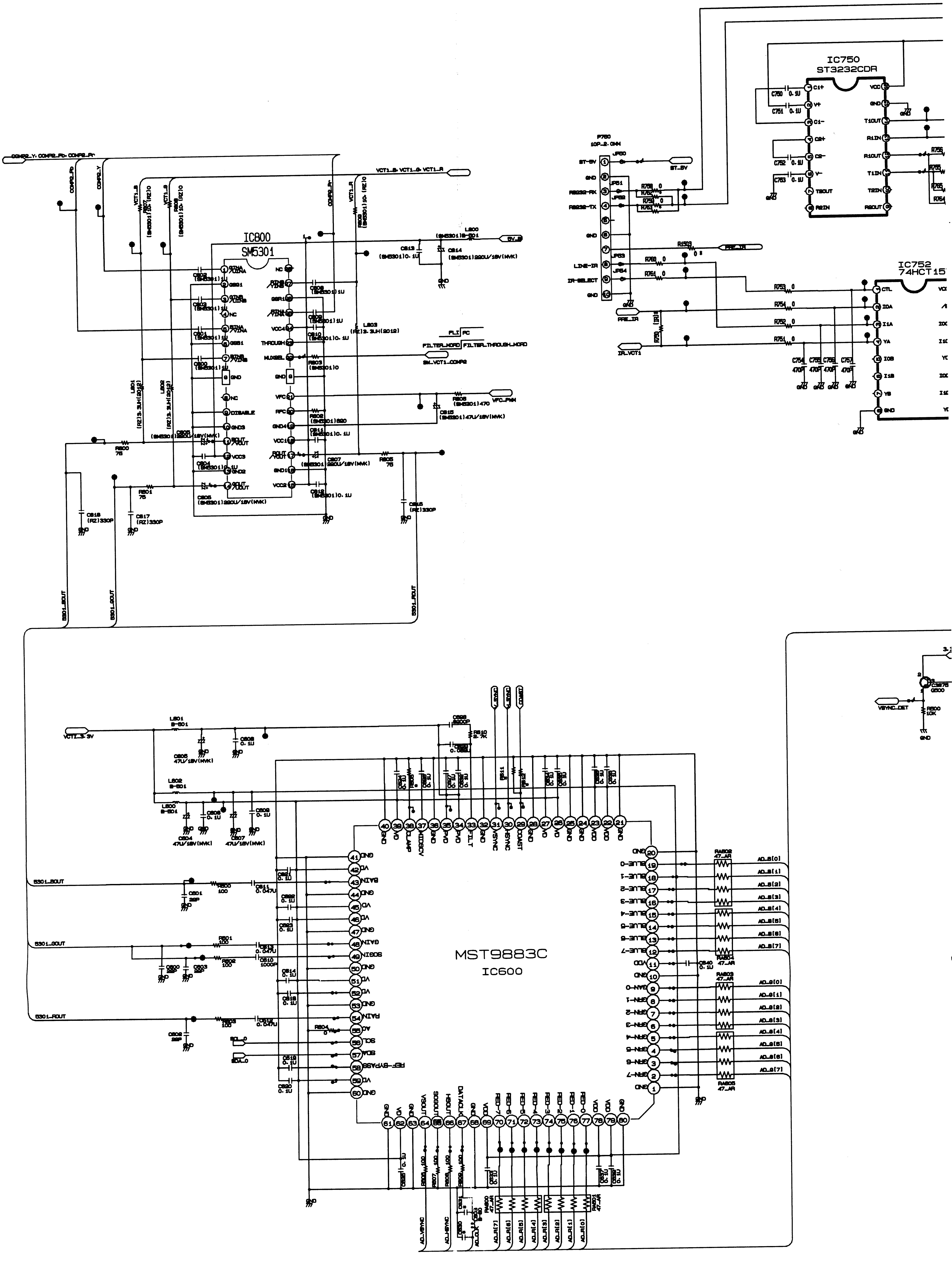

IC901
gm5221
IC900
AT49F002N
5V_B
RESET
ROM_ADDR[17]
ROM_ADDR[7]
ROM_ADDR[6]
ROM_ADDR[5]
ROM_ADDR[4]
ROM_ADDR[3]
ROM_ADDR[2]
ROM_ADDR[1]
ROM_ADDR[0]
ROM_DATA[0]
ROM_ADDR[14]
ROM_ADDR[13]
ROM_ADDR[8]
ROM_ADDR[9]
ROM_ADDR[11]
ROM_OE
ROM_ADDR[10]
ROM_CE
ROM_DATA[7]
ROM_WE
R966
R967
R1500 10K
R993 10K
C950 0.1U
3.3V_5221
X900 14.318MHz
C994
C995
R974 4.7K
R977 4.7K
R976 4.7K
LPL.AUD OPTION
AI_ENABLE
VBE_OUT
VBE_EXT_3.3V
CODEL1
CODEL2
P903
30P_LVDS(LPL32")
P902
30P_LVDS(CMO32")
P901
30P_LVDS(AU032")
VLCD
GND
SELECT
AI-EN
RA-
RA+
RB-
RB+
RC-
RC+
RXCLK-
RXCLK+
RD-
RD+
VBE-OUT
VBE-3.3V
RFF
NC
CODEL1
CODEL2
RX0-
RX0+
RX1-
RX1+
RX2-
RX2+
RXCLK-
RXCLK+
RX3-
RX3+
VCC
N.C
RIN0-
RIN0+
RIN1-
RIN1+
RIN2-
RIN2+
RXCLK-
RXCLK+
RIN3-
RIN3+
RESERVED
LVDS OPTION
ROTATE OPTION
VDD(5V)
L902
L903
L904
L907
(5V)
(12V)
5V_PANEL
12V_PANEL
C972 47U/25V(HVK)
C973 0.1U
3.3V_5221
R902 10K
R903 10K
CODEL2
CODEL1
VPC_PWM
VBE_EXT_3.3V
INV_CTL
SDA_A
SCL_A
COAST
VSYNC_DE
DPM_MODE
BUSY
DPM_DET
SW_PL_DDMP
PANEL_CTL
HDCP4000_SDA
HDCP4000_SCL
gm5221_UART_DOUT
gm5221_UART_DIN
AI_ENABLE
C942 0.1U
C945 0.1U
C946 0.1U
C943 0.1U
C944 0.1U
C947 0.1U
C948 0.1U
C949 0.1U
GND

* LPL32" & AU032" OPTION *

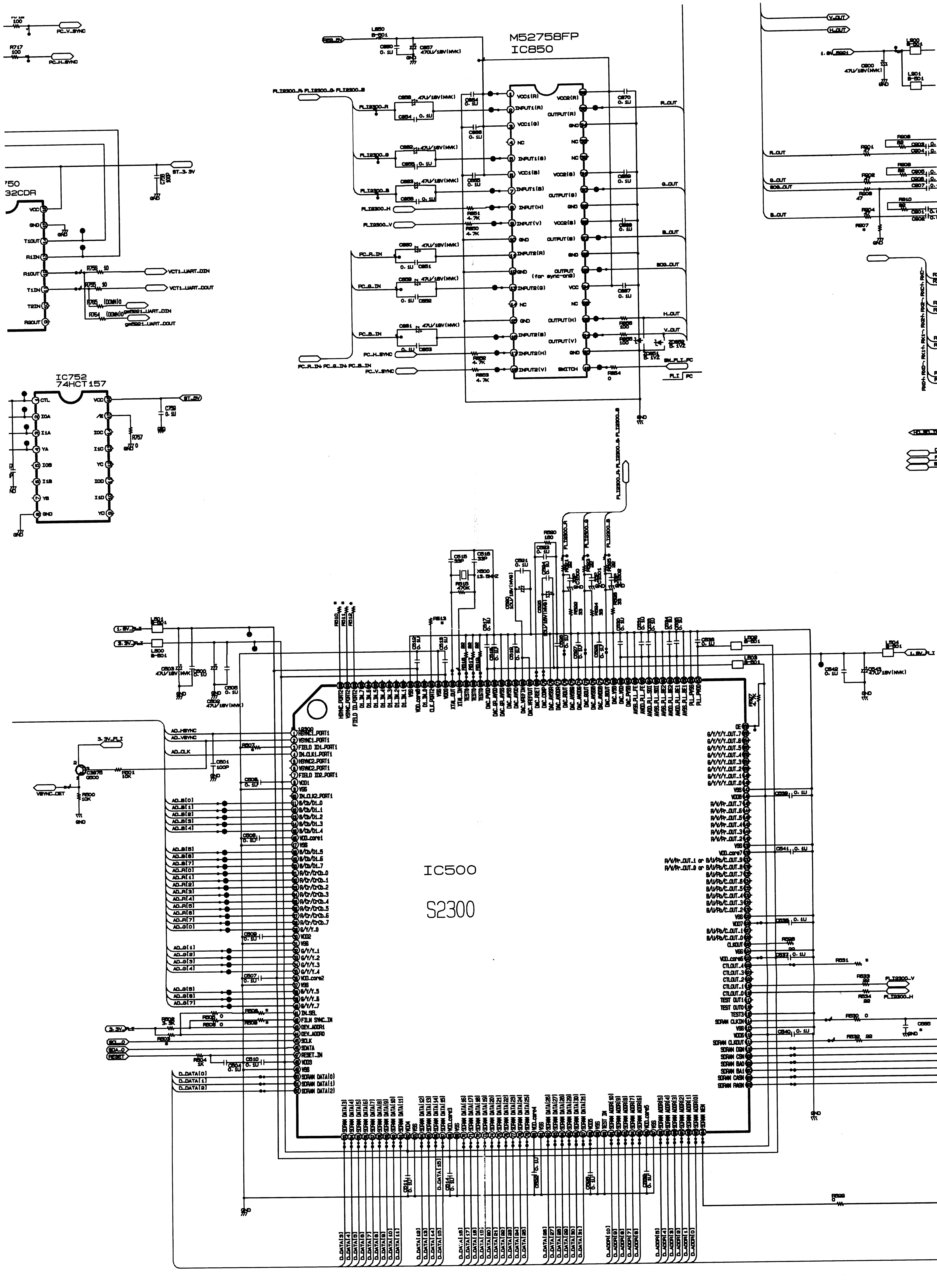
P901 2PIN	R967 SHORT - LPL32" R967 OPEN - AU032"
P901 2PIN	R968 SHORT - LPL32" R968 OPEN - AU032"
P901 3PIN	R961 SHORT - LPL32" R961 OPEN - AU032"
P901 20PIN	R989 OPEN R1291 SHORT - LPL32" R989 SHORT R1291 OPEN - AU032"
P901 21PIN	R928 SHORT R990 OPEN R991 OPEN - LPL32" R928 OPEN R990 SHORT R991 OPEN - AU032" L R928 OPEN R990 OPEN R991 SHORT - AU032" H
P901 22PIN	R992 SHORT R993 OPEN - LPL32" · AU032" L R992 OPEN R993 SHORT - AU032" H

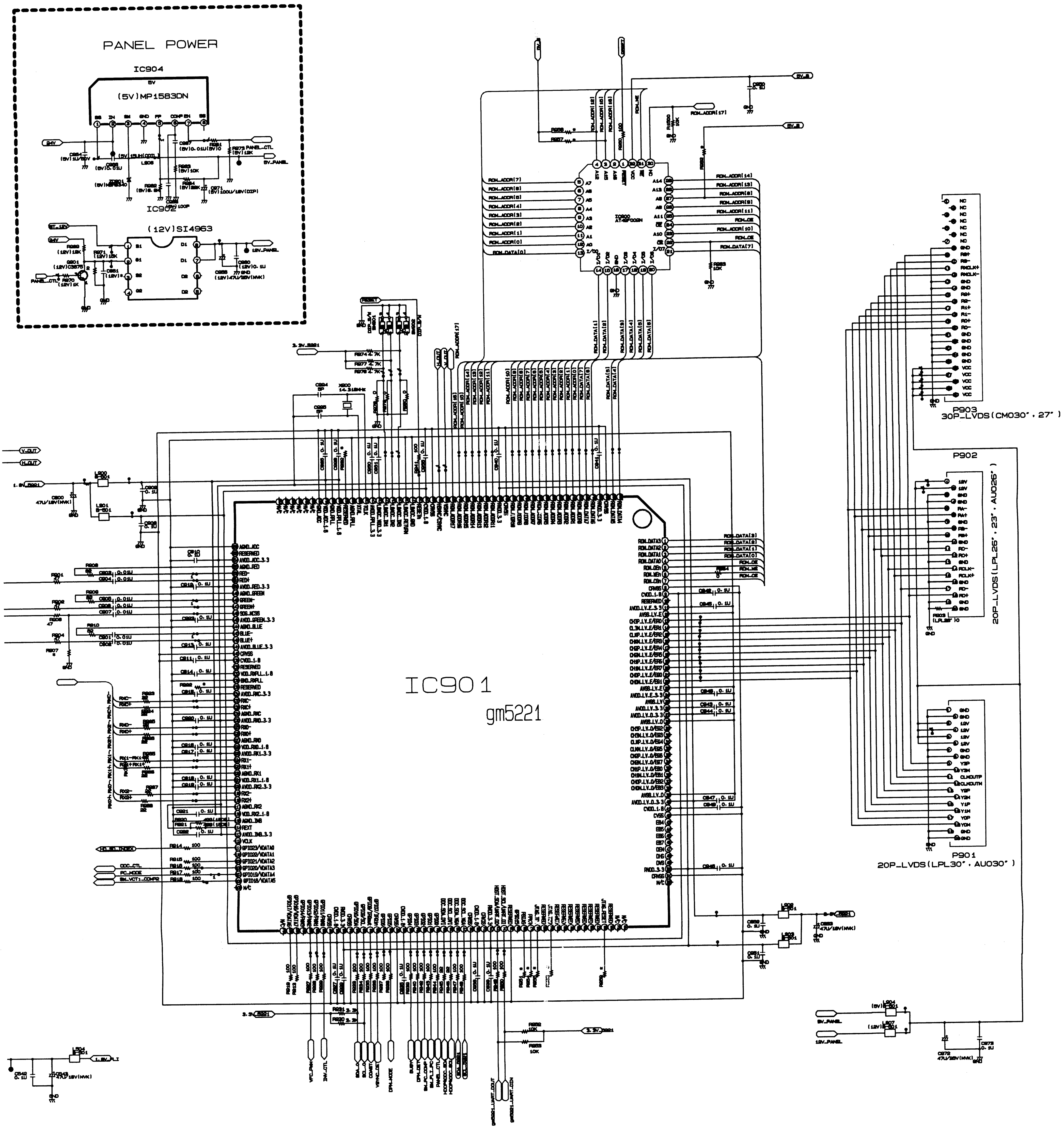
ML041A
RZ-26LZ55

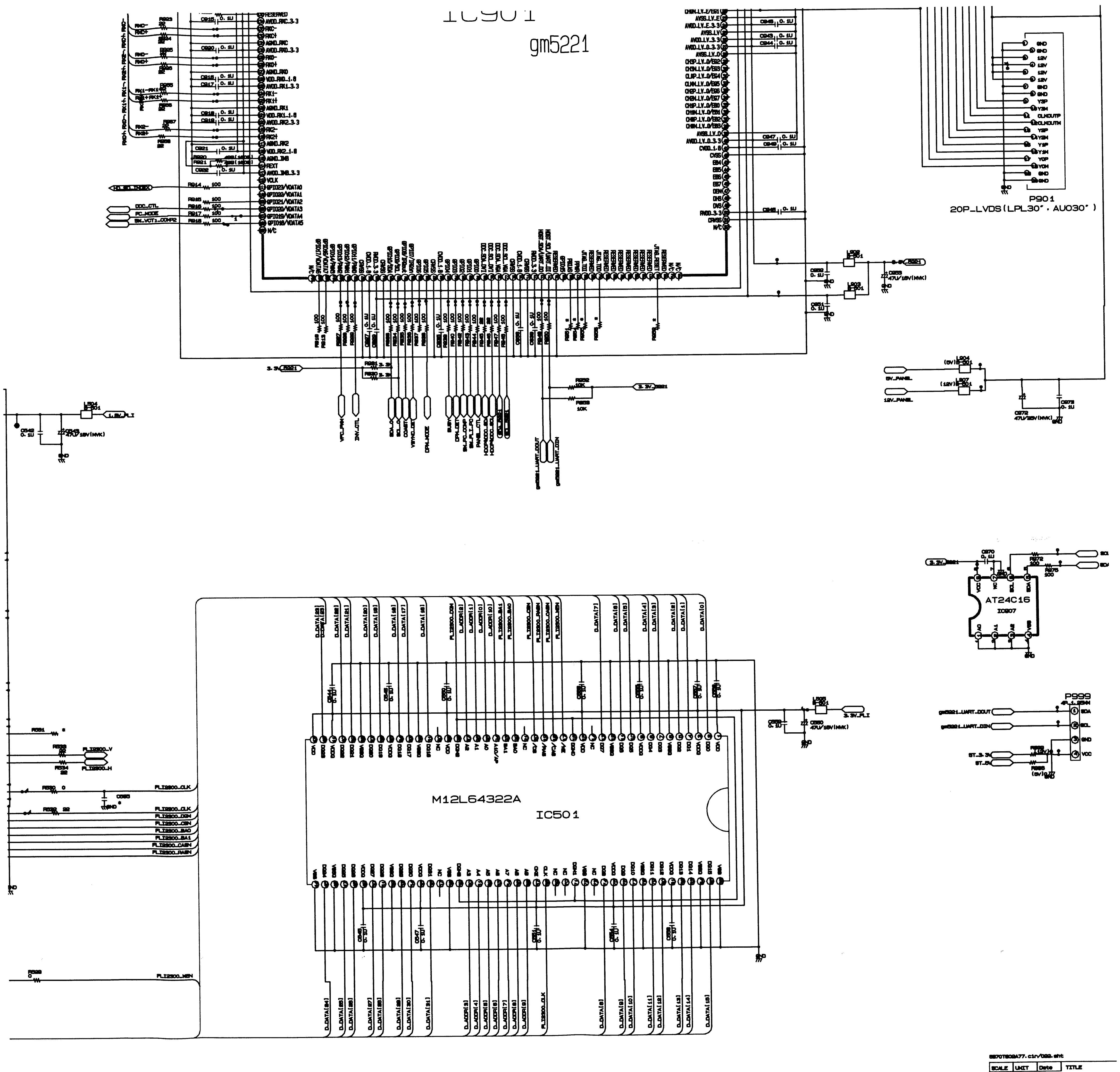

DOWN
PANEL POWER
IC904
(5V)HP15830N
IC903
(12V)SI4963
P700
DVI_I
IC905
FAN1587_3.3V
IC906
LD1086DT18
IC801
LM1117_3.3V
IC804
FAN1587_3.3V
IC805
LD1086DT18
MC14066
IC3000
MC14066
IC702
M52758FP
IC850
IC750
ST3232CDR
IC752
74HCT157
IC800
SN5301
IC901
gm5221
P903
30P_LVDS(CMO30", 27")
P902
20P_LVDS(LPL26", 23", AUO26")
P901
20P_LVDS(LPL30", AUO30")
MST9883C
IC600
IC500
S2300
M12L64322A
IC501
AT24C16
IC907
P999
LG전자

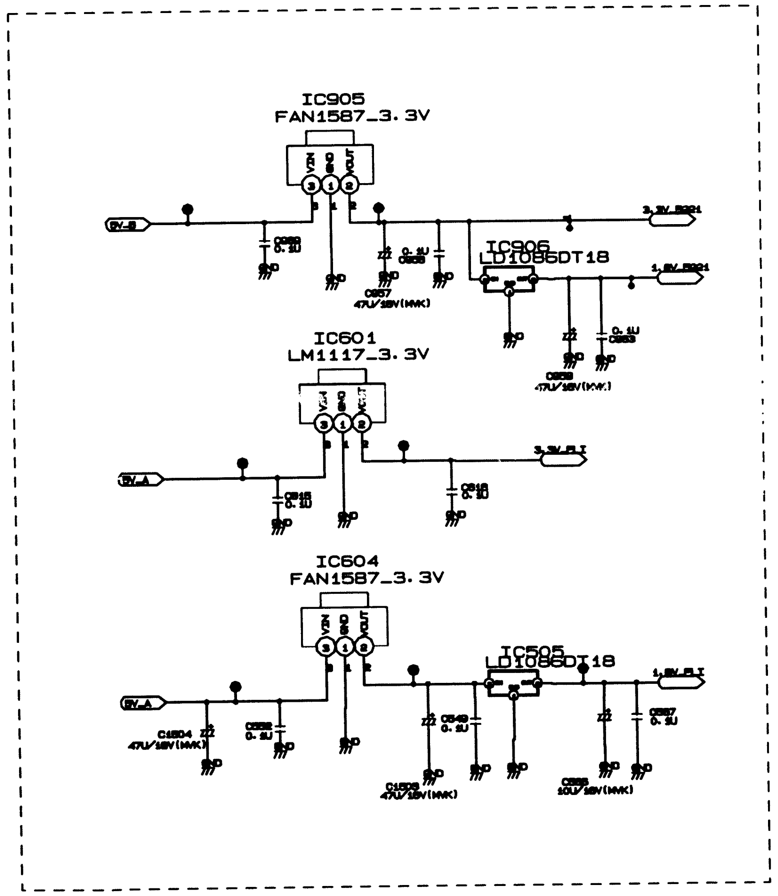


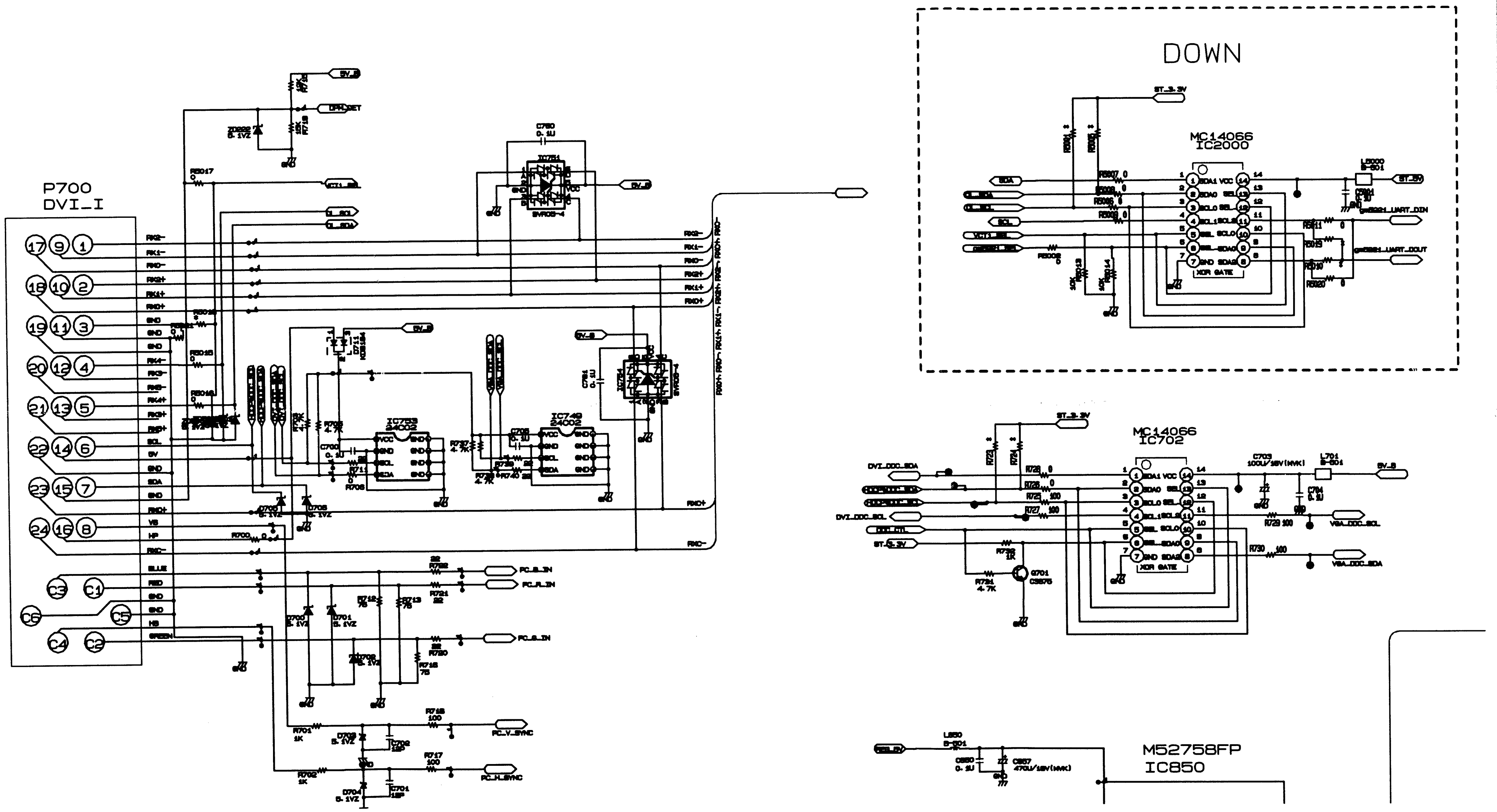
IC800
SM5301
COMP2_Y, COMP2_Pb, COMP2_Pr
VCT1_B, VCT1_G, VCT1_R
5V_B
L800
C813
C814
SW_VCT1_COMP2
FILTER_THROUGH_HORD
VFC_PWM
R800 75
R801 75
R805 75
C816 (RZ)330P
C817 (RZ)330P
C818 (RZ)330P
5301_BOUT
5301_GOUT
5301_ROUT
IC750
ST3232CDR
P750
ST_5V
RS232-RX
RS232-TX
LINE-IR
IR-SELECT
PRE_IR
IR_VCT1
IC752
74HCT15
R1503
R753 0
R754 0
R752 0
R751 0
C754 470P
C755 470P
C756 470P
C757 470P
VCT1_3.3V
L601 B-601
L602 B-601
L600 B-601
VSYNC_DET
R600 10K
Q600
MST9883C
IC600
RA602 47_AR
RA604 47_AR
RA603 47_AR
RA605 47_AR
RA600 47_AR
RA601 47_AR
AD_B[0]
AD_B[1]
AD_B[2]
AD_B[3]
AD_B[4]
AD_B[5]
AD_B[6]
AD_B[7]
AD_G[0]
AD_G[1]
AD_G[2]
AD_G[3]
AD_G[4]
AD_G[5]
AD_G[6]
AD_G[7]
AD_R[7]
AD_R[6]
AD_R[4]
AD_R[3]
AD_R[2]
AD_R[1]
AD_R[0]
AD_VSYNC
AD_HSYNC
AD_CLK
SCL_0
SDA_0
GND

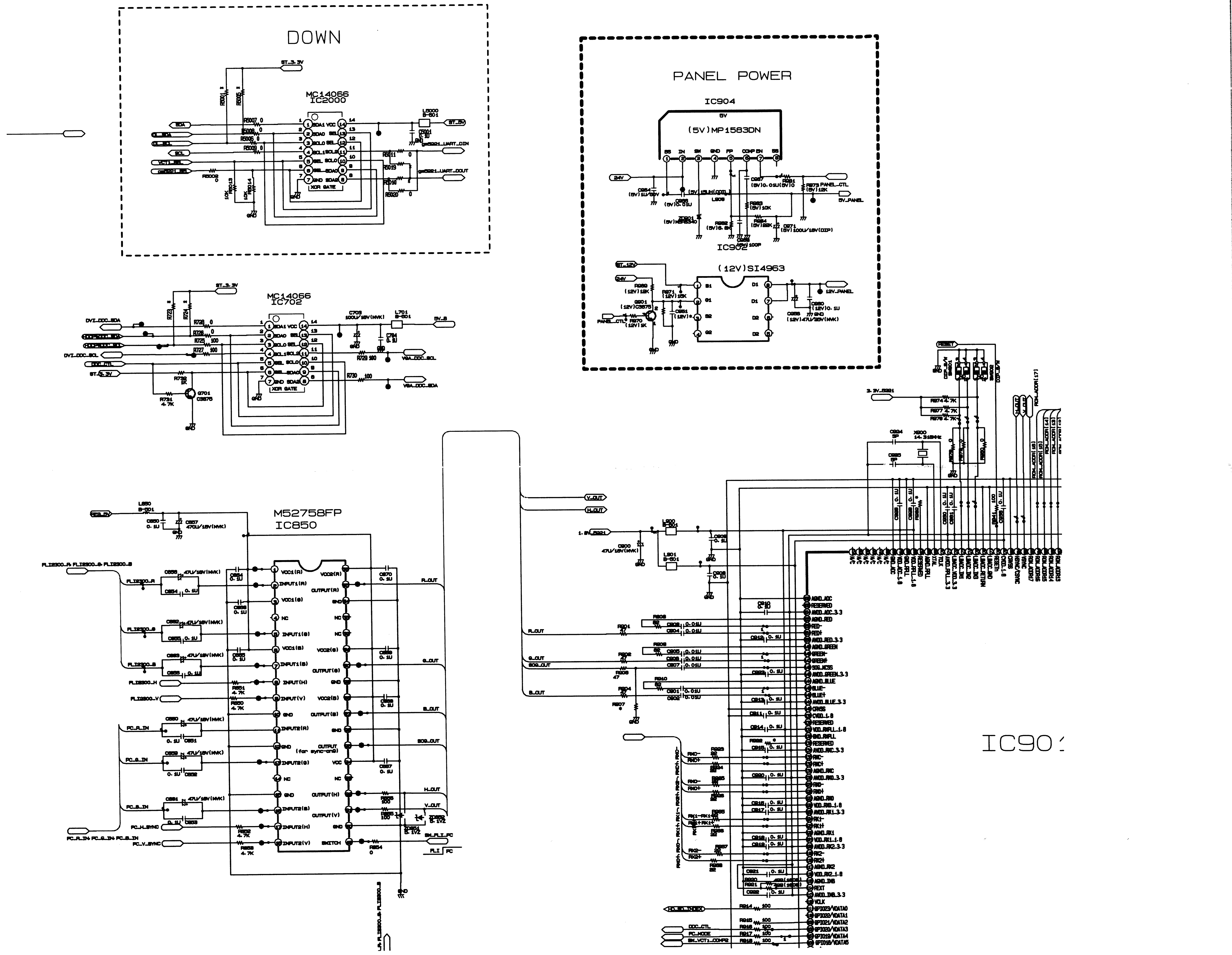

M52758FP
IC850
IC752
74HCT157
IC500
S2300
750
32CDR
PC_V_SYNC
PC_H_SYNC
R717
100
L850
B-601
C860
0.1U
C857
470U/16V(MVK)
FL_I2300_R
FL_I2300_G
FL_I2300_B
FL_I2300_H
FL_I2300_V
PC_R_IN
PC_G_IN
PC_B_IN
R_OUT
G_OUT
B_OUT
SOG_OUT
H_OUT
V_OUT
SW_FLI_PC
FLI
PC
VCC1(R)
INPUT1(R)
VCC1(G)
NC
INPUT1(B)
VCC1(B)
INPUT1(G)
INPUT(H)
INPUT(V)
GND
INPUT2(R)
INPUT2(G)
INPUT2(B)
INPUT2(H)
INPUT2(V)
VCC2(R)
OUTPUT(R)
VCC2(G)
OUTPUT(G)
VCC2(B)
OUTPUT(B)
OUTPUT
(for sync-on G)
VCC
OUTPUT(H)
OUTPUT(V)
SWITCH
ST_3.3V
ST_5V
VCC1_UART_DIN
VCC1_UART_DOUT
R756
R755
R765
R764
VCC
GND
T1OUT
R1IN
R1OUT
T1IN
T2IN
R2OUT
CTL
I0A
I1A
YA
I0B
I1B
YB
/E
I0C
I1C
YC
I0D
I1D
YD
C759
0.1U
R757
V_OUT
H_OUT
1.8V_FLI
3.3V_FLI
1.8V_R821
L500
L501
L502
L503
L504
L900
L901
C900
47U/16V(MVK)
R901
R902
R903
R904
R907
AD_HSYNC
AD_VSYNC
AD_CLK
AD_B[0]
AD_B[1]
AD_B[2]
AD_B[3]
AD_B[4]
AD_B[5]
AD_B[6]
AD_B[7]
AD_R[0]
AD_R[1]
AD_R[2]
AD_R[3]
AD_R[4]
AD_R[5]
AD_R[6]
AD_R[7]
AD_G[0]
AD_G[1]
AD_G[2]
AD_G[3]
AD_G[4]
AD_G[5]
AD_G[6]
AD_G[7]
VSYNC_DET
Q500
C3875
R501
10K
R500
10K
C501
100P
X500
13.5MHZ
C515
33P
C516
33P
R516
470K
HSYNC1_PORT1
VSYNC1_PORT1
FIELD ID1_PORT1
IN_CLK1_PORT1
HSYNC2_PORT1
VSYNC2_PORT1
FIELD ID2_PORT1
VDD1
VSS
IN_CLK2_PORT1
B/Cb/D1_0
B/Cb/D1_1
B/Cb/D1_2
B/Cb/D1_3
B/Cb/D1_4
VDD_core1
B/Cb/D1_5
B/Cb/D1_6
B/Cb/D1_7
R/Cr/CrCb_0
R/Cr/CrCb_1
R/Cr/CrCb_2
R/Cr/CrCb_3
R/Cr/CrCb_4
R/Cr/CrCb_5
R/Cr/CrCb_6
R/Cr/CrCb_7
G/Y/Y_0
VDD2
G/Y/Y_1
G/Y/Y_2
G/Y/Y_3
G/Y/Y_4
VDD_core2
G/Y/Y_5
G/Y/Y_6
G/Y/Y_7
IN_SEL
FILM SYNC_IN
DEV_ADDR1
DEV_ADDR0
SCLK
SDATA
RESET_IN
VDD3
SDRAM DATA(0)
SDRAM DATA(1)
SDRAM DATA(2)
3.3V
SCL_0
SDA_0
RESET
D_DATA[0]
D_DATA[1]
D_DATA[2]
OE
G/Y/Y_OUT_7
G/Y/Y_OUT_6
G/Y/Y_OUT_5
G/Y/Y_OUT_4
G/Y/Y_OUT_3
G/Y/Y_OUT_2
G/Y/Y_OUT_1
G/Y/Y_OUT_0
VDD8
R/V/Pr_OUT_7
R/V/Pr_OUT_6
R/V/Pr_OUT_5
R/V/Pr_OUT_4
R/V/Pr_OUT_3
R/V/Pr_OUT_2
VDD_core7
R/V/Pr_OUT_1 or B/U/Pb/C_OUT_9
R/V/Pr_OUT_0 or B/U/Pb/C_OUT_8
B/U/Pb/C_OUT_7
B/U/Pb/C_OUT_6
B/U/Pb/C_OUT_5
B/U/Pb/C_OUT_4
B/U/Pb/C_OUT_3
B/U/Pb/C_OUT_2
VDD7
B/U/Pb/C_OUT_1
B/U/Pb/C_OUT_0
CLKOUT
VDD_core6
CTLOUT_4
CTLOUT_3
CTLOUT_2
CTLOUT_1
CTLOUT_0
TEST OUT1
TEST OUT0
TEST3
SDRAM CLKIN
VDD6
SDRAM CLKOUT
SDRAM DQM
SDRAM CSN
SDRAM BA0
SDRAM BA1
SDRAM CASN
SDRAM RASN
FLI2300_V
FLI2300_H
R531
R533
R534
R530
R539
C640
C641
C642
C643
47U/16V(MVK)
D_DATA[3]
D_DATA[4]
D_DATA[5]
D_DATA[6]
D_DATA[7]
D_DATA[8]
D_DATA[9]
D_DATA[10]
D_DATA[11]
D_DATA[12]
D_DATA[13]
D_DATA[14]
D_DATA[15]
D_DATA[16]
D_DATA[17]
D_DATA[18]
D_DATA[19]
D_DATA[20]
D_DATA[21]
D_DATA[22]
D_DATA[23]
D_DATA[24]
D_DATA[25]
D_DATA[26]
D_DATA[27]
D_DATA[28]
D_DATA[29]
D_DATA[30]
D_DATA[31]
D_ADDR[10]
D_ADDR[9]
D_ADDR[8]
D_ADDR[7]
D_ADDR[6]
D_ADDR[5]
D_ADDR[4]
D_ADDR[3]
D_ADDR[2]
D_ADDR[1]
D_ADDR[0]
GND


PANEL POWER
IC904
(5V)MP1583DN
IC902
(12V)SI4963
IC900
AT49F002N
IC901
gm5221
P903
30P_LVDS(CM030", 27")
P902
20P_LVDS(LPL26", 23", AU026")
P901
20P_LVDS(LPL30", AU030")
X900
14.318MHz

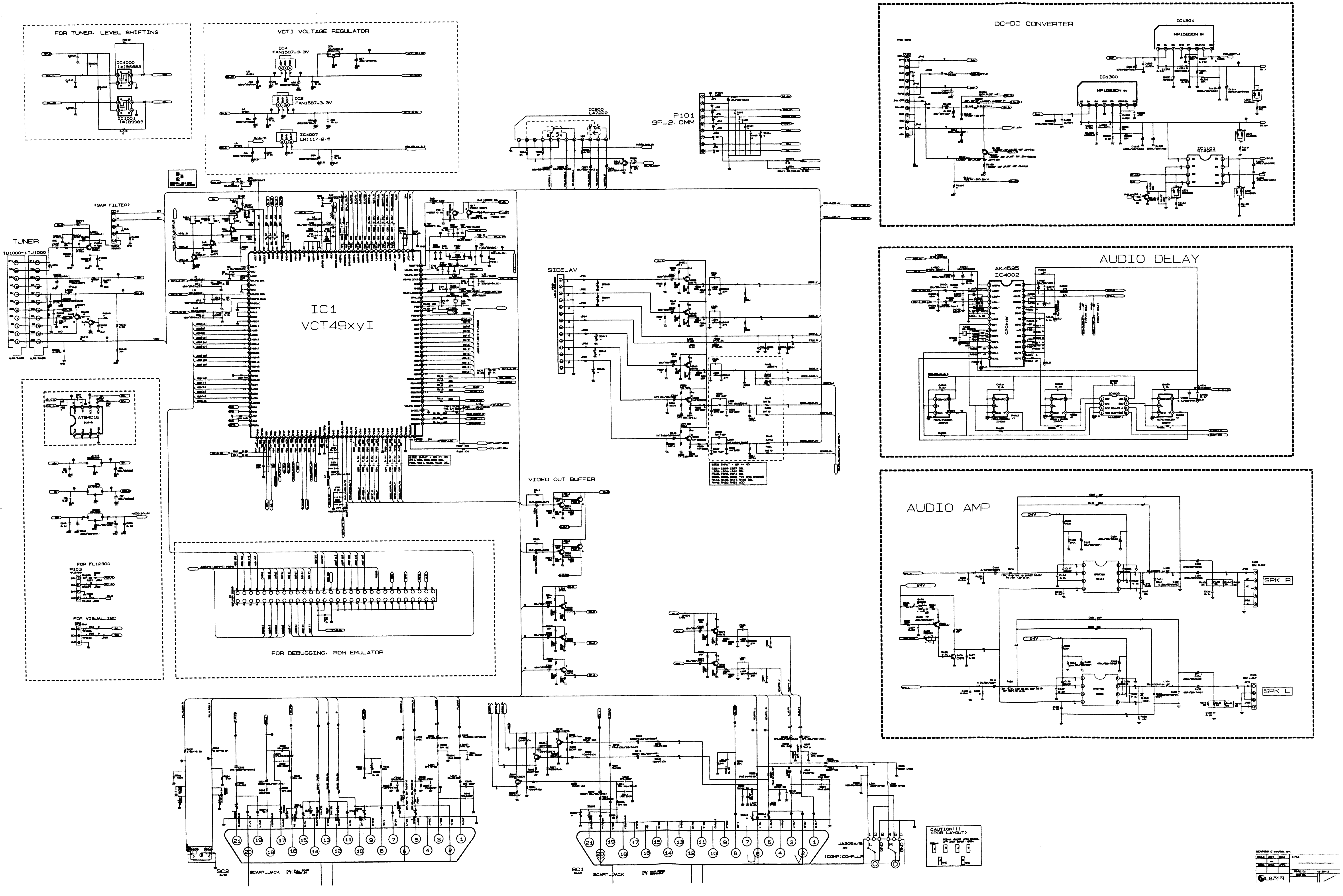

IC901
gm5221
P901
20P_LVDS(LPL30"·AU030")
HD_SD_INDEX
DDC_CTL
PC_MODE
SW_VCT1_COMP2
VPC_PWM
INV_CTL
DPM_MODE
gm5221_UART_DOUT
gm5221_UART_DIN
3.3V_5221
1.8V_FLI
5V_PANEL
12V_PANEL
C972
47U/25V(NVK)
AT24C16
IC907
SDA
SCL
P999
ST_3.3V
ST_5V
VCC
GND
M12L64322A
IC501
3.3V_FLI
C580
47U/16V(NVK)
FLI2300_CLK
FLI2300_CSN
FLI2300_BA0
FLI2300_BA1
FLI2300_CASN
FLI2300_RASN
FLI2300_WEN
FLI2300_V
FLI2300_H
SCALE
UNIT
Date
TITLE

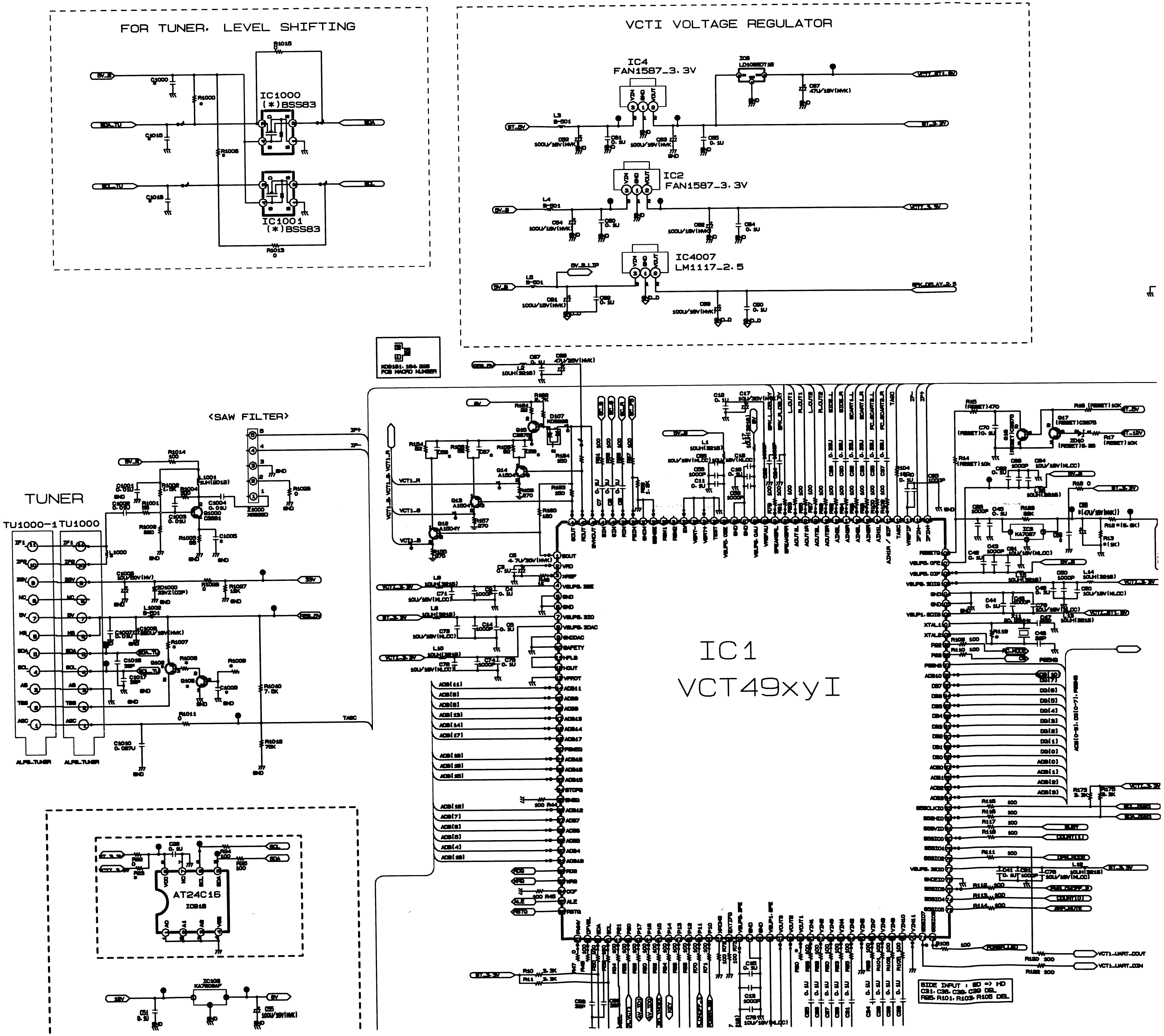

IC905
FAN1587_3.3V
IC906
LD1086DT18
3.3V_S221
1.8V_S221
IC601
LM1117_3.3V
3.3V_PLT
IC604
FAN1587_3.3V
IC505
LD1086DT18
1.8V_PLT
5V_S
5V_A

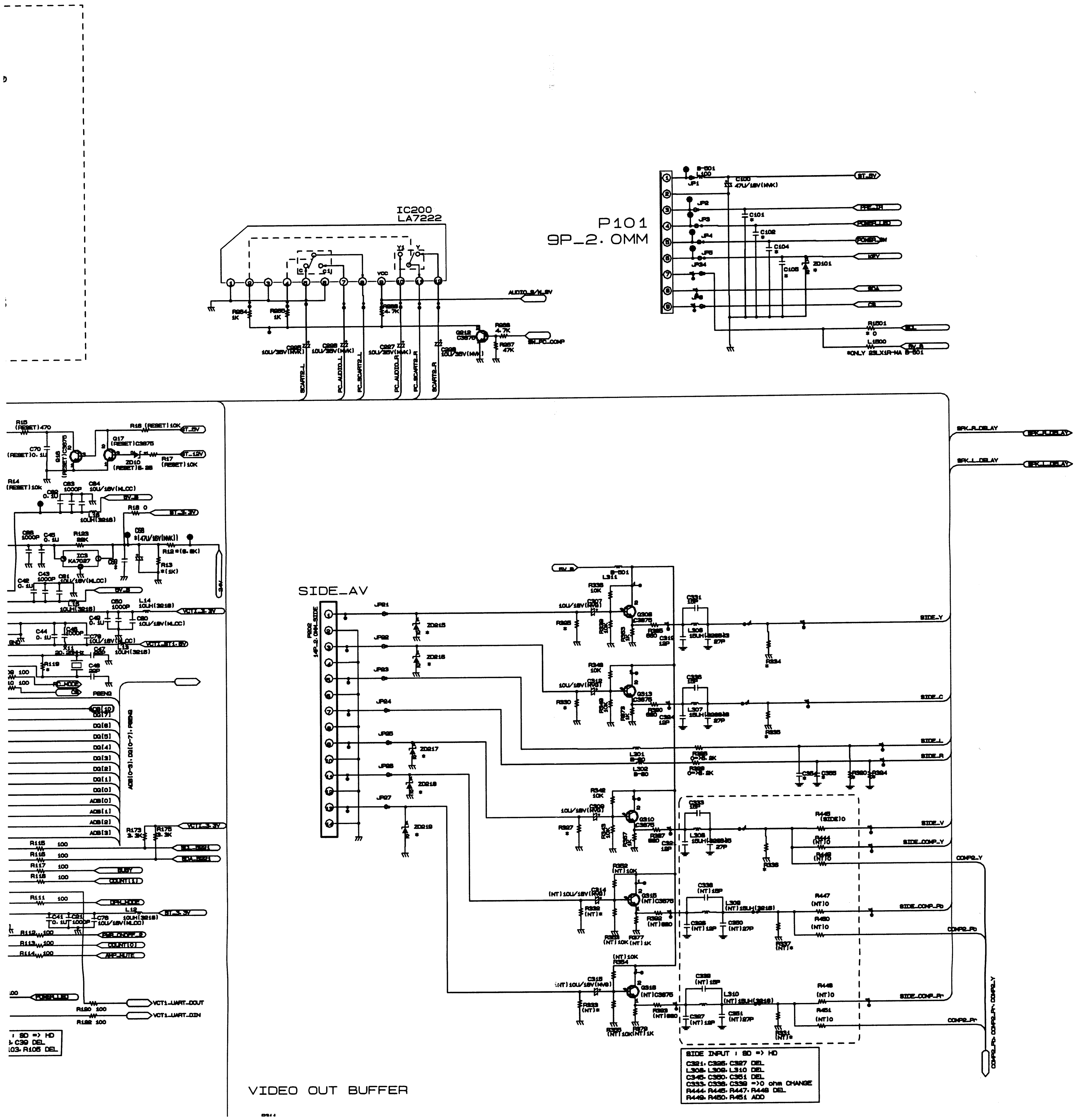

P700
DVI_I
IC753
24C02
IC749
24C02
DPM_DET
5V_S
PC_B_IN
PC_R_IN
PC_G_IN
PC_V_SYNC
PC_H_SYNC
DOWN
MC14066
IC2000
ST_3.3V
ST_5V
SDA
SCL
XOR GATE
MC14066
IC702
DVI_DDC_SDA
DVI_DDC_SCL
VGA_DDC_SCL
VGA_DDC_SDA
ST_3.3V
M52758FP
IC850


DOWN
MC14066
IC2000
ST_3.3V
L5000
B-601
ST_5V
SDA
SCL
VCT1_SEL
XOR GATE
UART_DIN
UART_DOUT
PANEL POWER
IC904
(5V)MP1583DN
24V
PANEL_CTL
5V_PANEL
IC902
(12V)SI4963
ST_12V
12V_PANEL
MC14066
IC702
DVI_DDC_SDA
DVI_DDC_SCL
DDC_CTL
ST_3.3V
5V_S
VGA_DDC_SCL
VGA_DDC_SDA
Q701
C3875
M52758FP
IC850
REG_5V
R_OUT
G_OUT
B_OUT
SOG_OUT
H_OUT
V_OUT
SW_FLI_PC
FLI PC
PC_R_IN
PC_G_IN
PC_B_IN
PC_H_SYNC
PC_V_SYNC
FLI2300_R
FLI2300_G
FLI2300_B
FLI2300_H
FLI2300_V
V_OUT
H_OUT
RESET
3.3V_S221
X900
14.318MHz
L900
L901
1.8V_S221
HD_SD_INDEX
DDC_CTL
PC_MODE
SW_VCT1_COMP2
IC901

ML041A
RZ-32LZ55


FOR TUNER, LEVEL SHIFTING
IC1000 (#)BSS83
IC1001 (#)BSS83
VCTI VOLTAGE REGULATOR
IC4 FAN1587_3.3V
IC2 FAN1587_3.3V
IC4007 LM1117_2.5
IC200 LA7222
P101 9P_2.0MM
DC-DC CONVERTER
IC1301 MP1583DN 5V
IC1300 MP1583DN 5V
IC1101
<SAW FILTER>
TUNER
TU1000-1 TU1000
IC1 VCT49xyI
SIDE_AV
AUDIO DELAY
AK4525 IC4002
AT24C16
VIDEO OUT BUFFER
AUDIO AMP
24V
SPK R
SPK L
FOR FL12300
P103
FOR VISUAL_I2C
FOR DEBUGGING, ROM EMULATOR
SC2 SCART_JACK
SC1 SCART_JACK
JA205A/B (COMP)COMP_LR
L R
CAUTION!!! (PCB LAYOUT)
LG전자

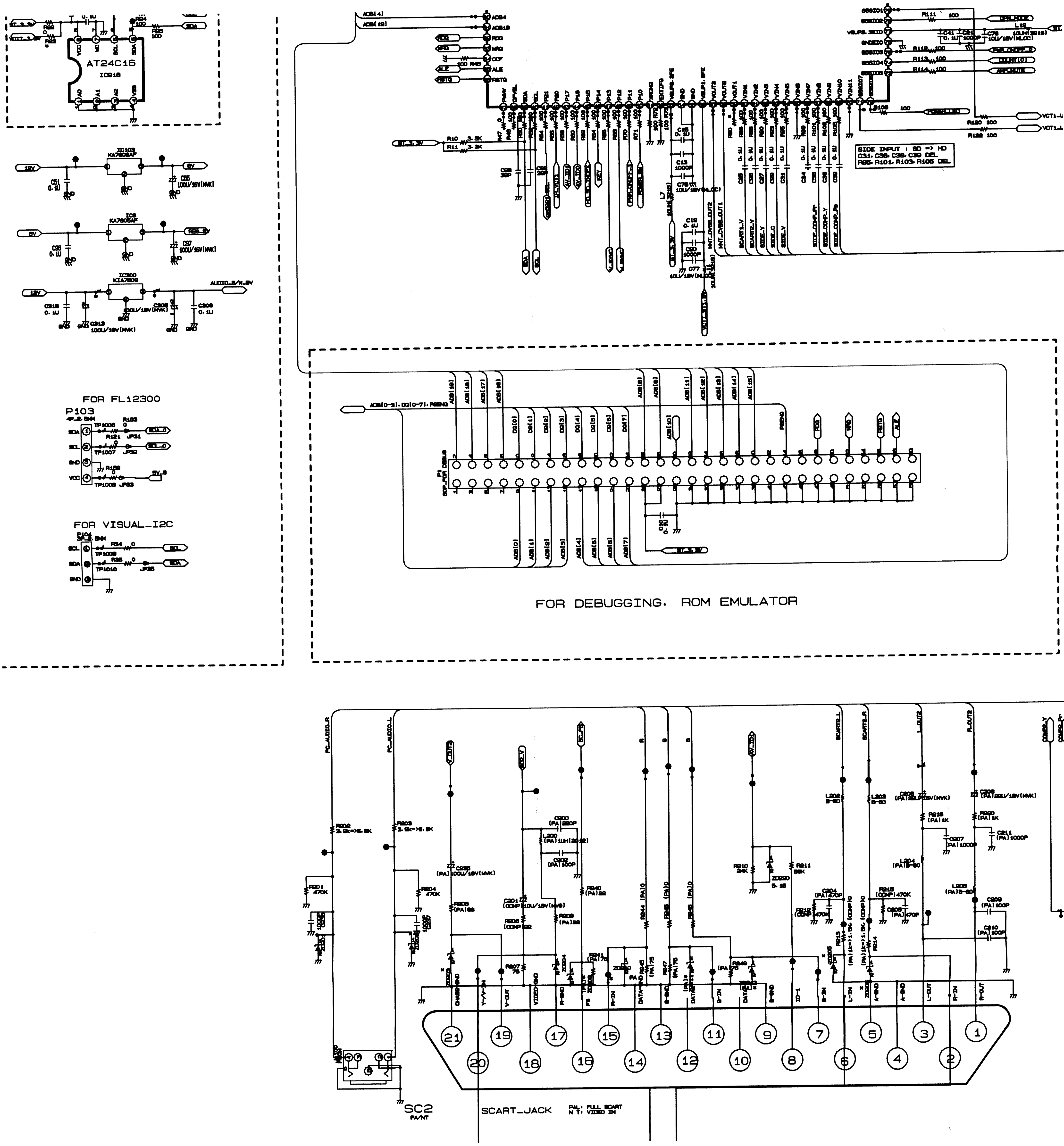

FOR TUNER, LEVEL SHIFTING
IC1000
(*)BSS83
IC1001
(*)BSS83
VCTI VOLTAGE REGULATOR
IC4
FAN1587_3.3V
IC2
FAN1587_3.3V
IC4007
LM1117_2.5
<SAW FILTER>
TUNER
TU1000-1
TU1000
ALPS_TUNER
AT24C16
IC101
IC1
VCT49xyI
SIDE INPUT : SD => HD
C31, C35, C32, C30 DEL
R95, R101, R103, R105 DEL

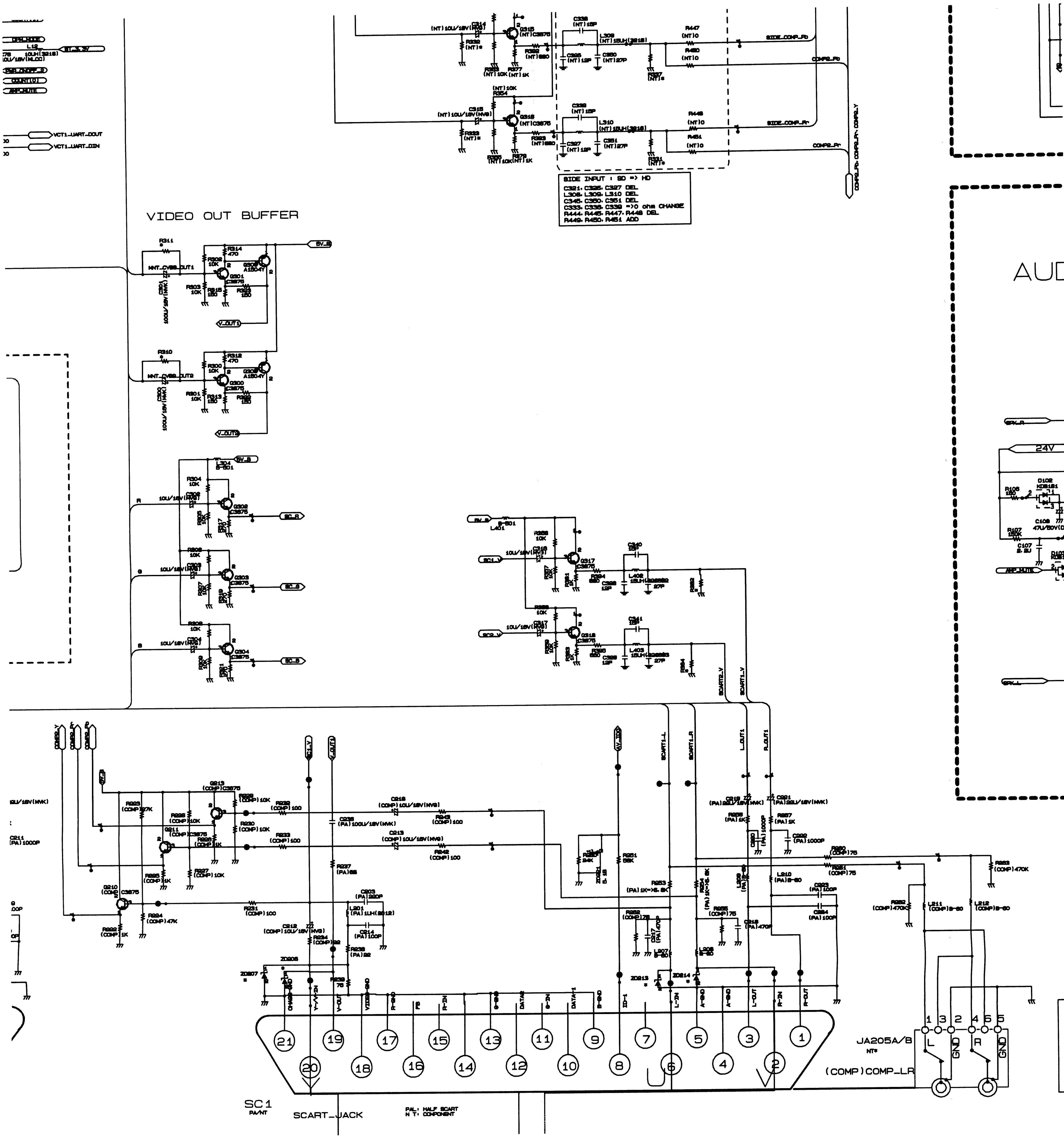

IC200
LA7222
P101
9P_2.0MM
B-501
L100
JP1
C100
47U/16V(MMK)
ST_5V
JP2
JP3
JP4
JP5
JP34
C101
C102
C104
C105
ZD101
PRE_IR
POWER_LED
POWER_SW
KEY
SDA
CS
R1501
L1500
SCL
5V_B
*ONLY 23LX1R-MA B-501
AUDIO_S/W_5V
R364
1K
R365
1K
R368
4.7K
Q312
C3875
R366
4.7K
R367
47K
SW_PC_COMP
SCART2_L
PC_AUDIO_L
PC_SCART2_L
PC_AUDIO_R
PC_SCART2_R
SCART2_R
SPK_R_DELAY
SPK_L_DELAY
SIDE_AV
P802
14P-2.0MM-SIDE
JP21
JP22
JP23
JP24
JP25
JP26
JP27
ZD215
ZD216
ZD217
ZD218
ZD219
5V_B
B-501
L311
R336
10K
Q306
C3875
L308
15UH(3216)
R334
SIDE_Y
R348
10K
Q313
C3875
L307
15UH(3216)
R335
SIDE_C
L301
L302
SIDE_L
SIDE_R
R342
10K
Q310
C3875
L305
15UH(3216)
R338
R445
(SIDE)0
R444
(NT)0
R449
(NT)0
SIDE_V
SIDE_COMP_Y
COMP2_Y
R352
(NT)10K
Q315
(NT)C3875
L309
(NT)15UH(3216)
R447
(NT)0
R450
(NT)0
R337
(NT)*
SIDE_COMP_Pb
COMP2_Pb
(NT)10K
R354
Q316
(NT)C3875
C339
(NT)15P
L310
(NT)15UH(3216)
C327
(NT)12P
C361
(NT)27P
R448
(NT)0
R451
(NT)0
R331
(NT)*
SIDE_COMP_Pr
COMP2_Pr
COMP2_Pb, COMP2_Pr, COMP2_Y
R15
(RESET)470
C70
(RESET)0.1U
Q16
(RESET)C3875
Q17
(RESET)C3875
ZD10
(RESET)5.6B
R16
(RESET)10K
R17
(RESET)10K
ST_5V
ST_12V
R14
(RESET)10K
C83
1000P
C84
10U/16V(HLCC)
5V_B
R18 0
ST_3.3V
L16
10UH(3216)
C85
1000P
C45
0.1U
R123
68K
IC3
KA7027
C68
*(47U/16V(MMK))
R12
*(6.8K)
R13
*(1K)
C43
1000P
C81
10U/16V(HLCC)
C42
0.1U
5V_B
L15
10UH(3216)
C80
1000P
L14
10UH(3216)
VCT1_3.3V
C48
0.1U
C50
10U/16V(HLCC)
C44
0.1U
C46
1000P
C79
10U/16V(HLCC)
L13
10UH(3216)
VCT1_ST1.8V
X11
20.25MHZ
C47
22P
C49
22P
R119
100
100
PC_MODE
CS
PBENG
ADB(10)
DQ(7)
DQ(6)
DQ(5)
DQ(4)
DQ(3)
DQ(2)
DQ(1)
DQ(0)
ADB(0)
ADB(1)
ADB(2)
ADB(3)
ADB(0-3), DQ(0-7), PBENG
R173
3.3K
R176
3.3K
VCT1_3.3V
R115
100
R116
100
SCL_REG1
SDA_REG1
R117
100
R118
100
BUSY
COUNT(1)
R111
100
OPM_MODE
C41
0.1U
C21
1000P
C78
10U/16V(HLCC)
L12
10UH(3216)
ST_3.3V
R112
100
R113
100
R114
100
PGM_ON/OFF_B
COUNT(0)
AMP_MUTE
100
POWER_LED
R120
100
R122
100
VCT1_UART_DOUT
VCT1_UART_DIN
: SD => HD
C39 DEL
103, R105 DEL

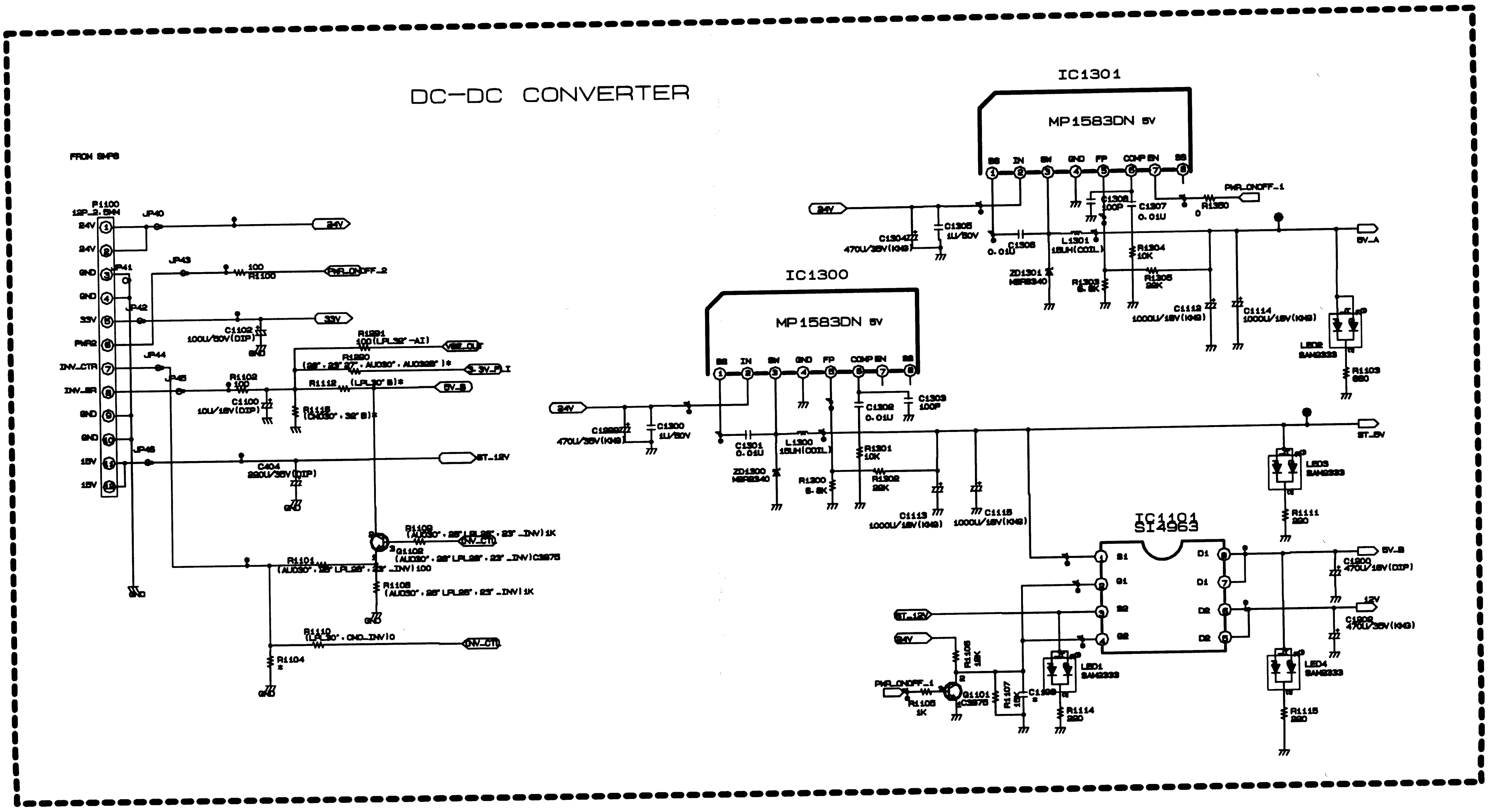
SIDE INPUT : SD => HD

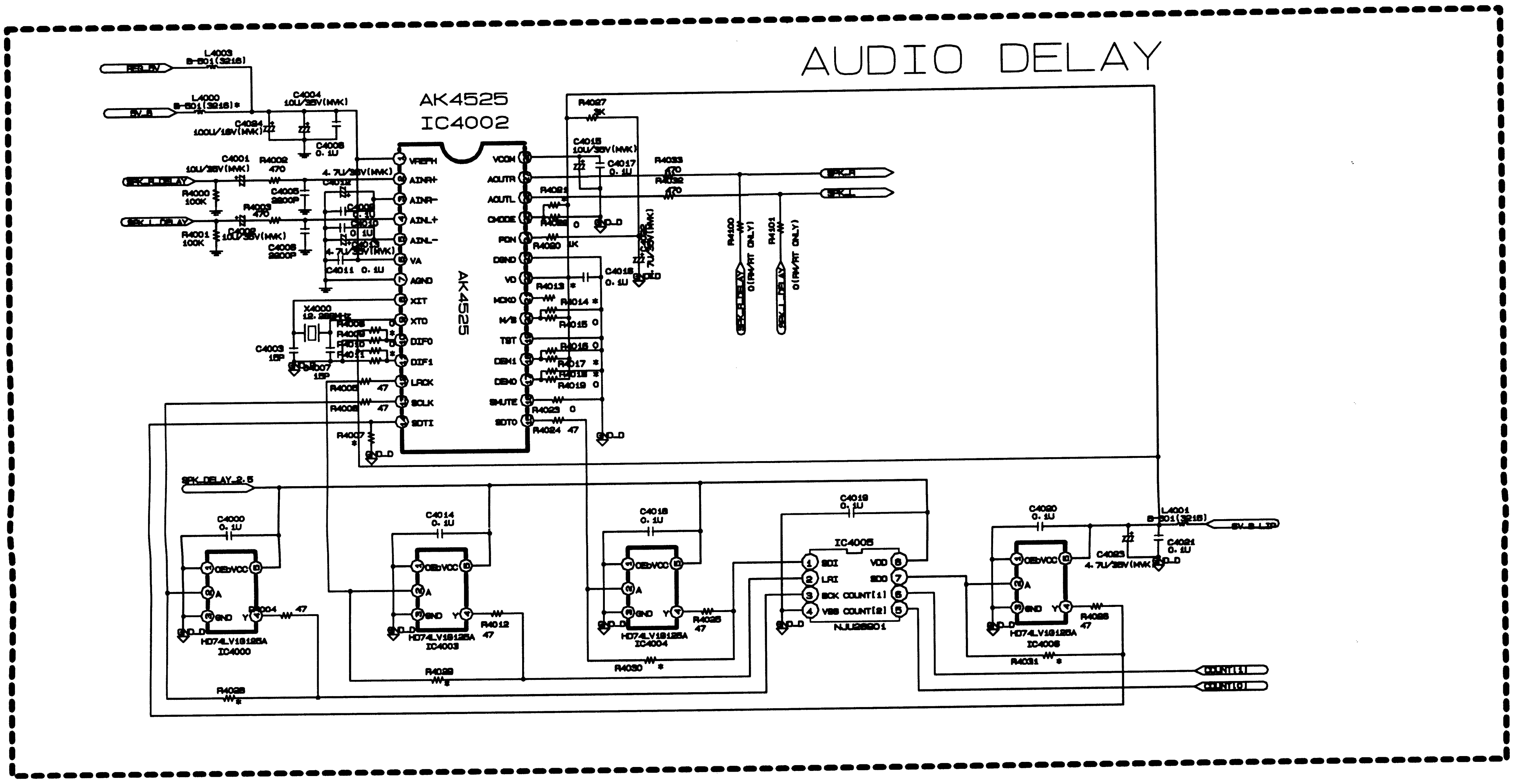
C321, C326, C327 DEL
L308, L309, L310 DEL
C345, C360, C361 DEL
C333, C338, C339 =>0 ohm CHANGE
R444, R445, R447, R448 DEL
R449, R450, R451 ADD

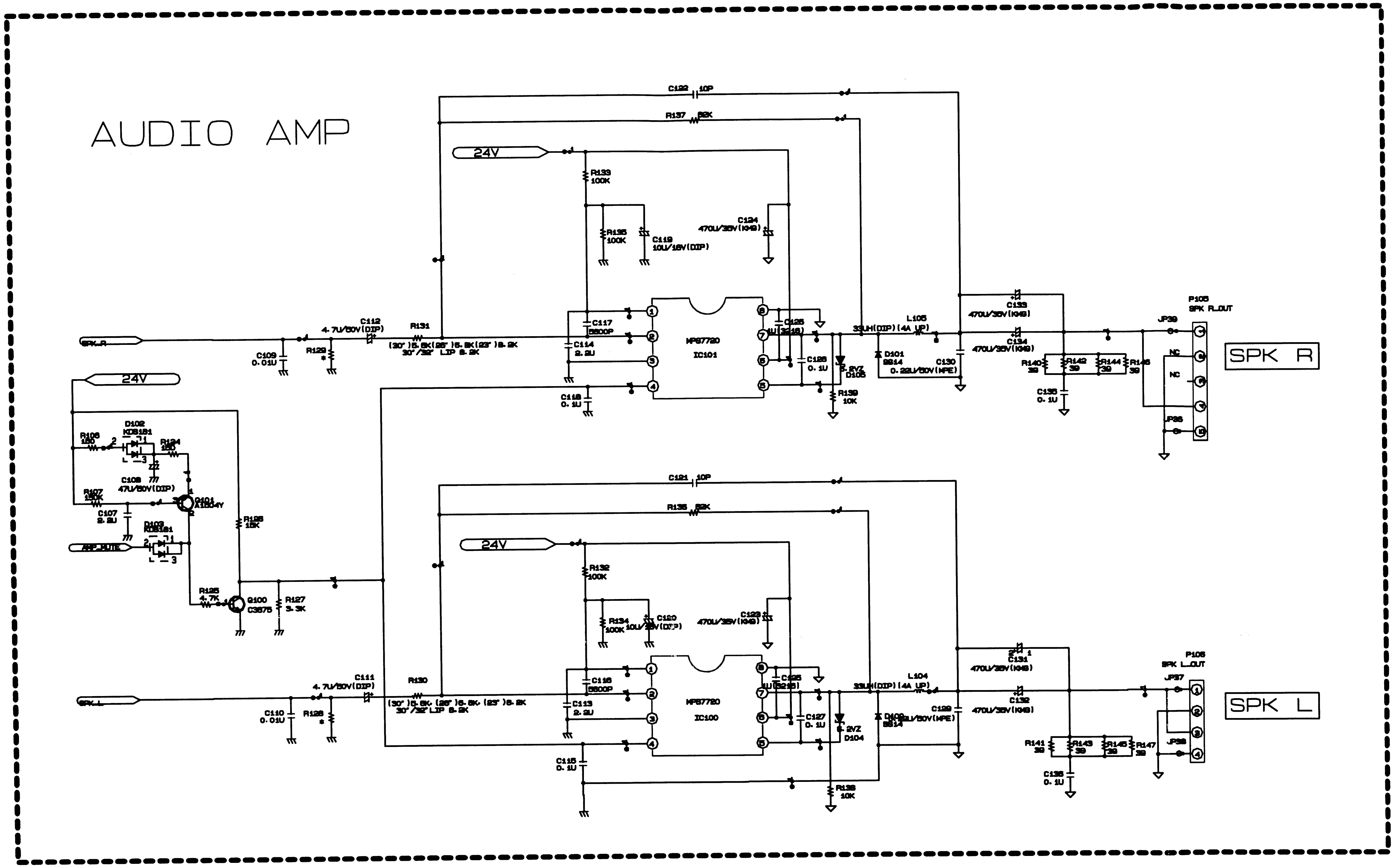
VIDEO OUT BUFFER

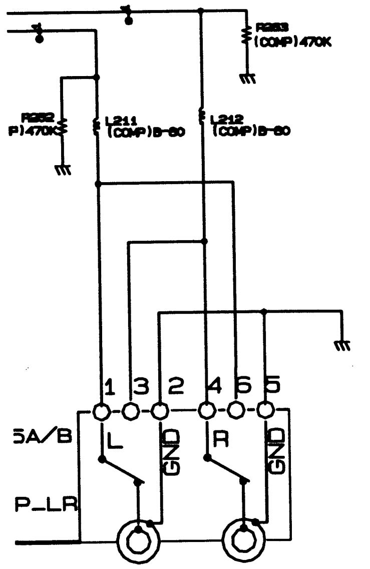

AT24C16
IC918
SDA
IC103
KA7808AF
12V
8V
C51 0.1U
C55 100U/16V(NVK)
IC8
KA7805AF
REG_5V
C56 0.1U
C57 100U/16V(NVK)
IC300
KIA7809
AUDIO_9/4.9V
C318 0.1U
C313 100U/16V(NVK)
C305 100U/16V(NVK)
C308 0.1U
FOR FL12300
P103
TP1005
TP1007
TP1008
R153
R121
R152
JP31
JP32
JP33
SDA_O
SCL_O
5V_S
FOR VISUAL_I2C
P104
R34
R35
TP1009
TP1010
JP35
SCL
SDA
GND
ADB(4)
ADB(19)
RDG
WRG
ALE
RSTG
R10 3.3K
R11 3.3K
ST_3.3V
R111 100
R112 100
R113 100
R114 100
R106
R120 100
R122 100
L12 10UH(3216)
C41 0.1U
C61 1000P
C78 10U/16V(NLOC)
VCT1_L
SIDE INPUT : SD => HD
C31, C36, C38, C39 DEL
R95, R101, R103, R106 DEL
C13 1000P
C15
C16
C20 1000P
C75 10U/16V(NLOC)
C77 10U/16V(NLOC)
L7 10UH(3216)
SCART1_V
SCART2_V
SIDE_Y
SIDE_C
SIDE_V
SIDE_COMP_Pr
SIDE_COMP_Y
SIDE_COMP_Pb
ADB[0-3], DQ[0-7], PSENG
P1
SOP_FOR_DEBUG
C10 0.1U
ADB(0)
ADB(1)
ADB(2)
ADB(3)
ADB(4)
ADB(5)
ADB(6)
ADB(7)
ADB(8)
ADB(9)
ADB(10)
ADB(11)
ADB(12)
ADB(13)
ADB(14)
ADB(15)
ADB(16)
ADB(17)
ADB(18)
ADB(19)
DQ(0)
DQ(1)
DQ(2)
DQ(3)
DQ(4)
DQ(5)
DQ(6)
DQ(7)
PSENG
FOR DEBUGGING. ROM EMULATOR
PC_AUDIO_R
PC_AUDIO_L
R202 3.9K=>6.8K
R203 3.9K=>6.8K
R201 470K
R204 470K
R205 (PA)68
R206 (COMP)82
R207 75
R209 (PA)22
R210 24K
R211 56K
R216 (PA)1K
R220 (PA)1K
R215 (COMP)470K
R212 (COMP)470K
C235 (PA)100U/16V(NVK)
C200 (PA)220P
L200 (PA)1UH(2012)
C202 (PA)100P
C201 (COMP)10U/16V(NVB)
C204 (PA)470P
C205 (PA)470P
C207 (PA)1000P
C211 (PA)1000P
C209 (PA)100P
C210 (PA)100P
L202 B-80
L203 B-80
L204 (PA)B-80
L205 (PA)B-80
SCART_L
SCART_R
L_OUT2
R_OUT2
COMP2_Y
SCART_JACK
PAL: FULL SCART
N T: VIDEO IN
SC2
PA/NT
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1

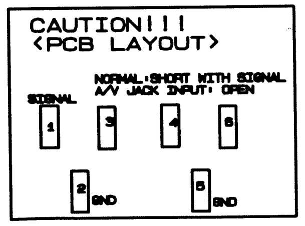

VIDEO OUT BUFFER
SIDE INPUT : SD => HD
C321, C326, C327 DEL
L308, L309, L310 DEL
C345, C350, C351 DEL
C333, C336, C339 =>0 ohm CHANGE
R444, R445, R447, R448 DEL
R449, R450, R451 ADD
SIDE_COMP_Pb
COMP2_Pb
SIDE_COMP_Pr
COMP2_Pr
COMP2_Pb, COMP2_Pr, COMP2_Y
5V_S
MNT_CVBS_OUT1
MNT_CVBS_OUT2
V_OUT1
V_OUT2
SC_R
SC_G
SC_B
SC1_V
SC2_V
SCART1_V
SCART2_V
SCART1_L
SCART1_R
L_OUT1
R_OUT1
AV_TOOP
AUD
24V
SPK_R
SPK_L
AMP_MUTE
VCT1_UART_DOUT
VCT1_UART_DIN
CHASS
Y-/V-IN
V-OUT
VIDEO GND
R-GND
FB
R-IN
G-GND
DATA2
G-IN
DATA-1
B-GND
ID-1
L-IN
A-GND
L-OUT
R-OUT
21
19
17
15
13
11
9
7
5
3
1
20
18
16
14
12
10
8
6
4
2
SC1
PA/NT
SCART_JACK
PAL: HALF SCART
N T: COMPONENT
JA205A/B
NT*
(COMP)COMP_LR
1
3
2
4
6
5
L
R
GND
GND


DC-DC CONVERTER
FROM SMPS
P1100
12P_2.5MM
24V
24V
GND
GND
33V
PWR2
INV_CTR
INV_BR
GND
GND
15V
15V
JP40
JP41
JP42
JP43
JP44
JP45
JP46
24V
PWR_ONOFF_2
R1100
100
33V
C1102
100U/50V(DIP)
R1291
100(LPL32"-AI)
VEE_OUT
R1290
(26", 23" 27", AU030", AU032S")*
3.3V_PLI
R1102
100
R1112
(LPL30" B)*
5V_B
C1100
10U/16V(DIP)
R1115
(CH030", 32" B)*
C404
220U/35V(DIP)
ST_12V
R1109
(AU030", 26" LPL26", 23" _INV)1K
INV_CTL
Q1102
(AU030", 26" LPL26", 23" _INV)C3875
R1101
(AU030", 26" LPL26", 23" _INV)100
R1108
(AU030", 26" LPL26", 23" _INV)1K
R1110
(LPL30", CMO_INV)0
INV_CTL
R1104
*
GND
IC1301
MP1583DN 5V
BS IN SW GND FP COMP EN SS
PWR_ONOFF_1
R1350
0
24V
C1304
470U/35V(KMG)
C1305
1U/50V
C1306
0.01U
C1308
100P
C1307
0.01U
L1301
15UH(COIL)
ZD1301
MBRS340
R1304
10K
R1303
6.8K
R1305
22K
C1112
1000U/16V(KMG)
C1114
1000U/16V(KMG)
5V_A
LED2
SAM2333
R1103
680
IC1300
MP1583DN 5V
BS IN SW GND FP COMP EN SS
24V
C1299
470U/35V(KMG)
C1300
1U/50V
C1301
0.01U
L1300
15UH(COIL)
ZD1300
MBRS340
C1302
0.01U
C1303
100P
R1301
10K
R1300
6.8K
R1302
22K
C1113
1000U/16V(KMG)
C1115
1000U/16V(KMG)
ST_5V
LED3
SAM2333
R1111
220
IC1101
SI4963
S1 G1 S2 G2 D1 D1 D2 D2
ST_12V
24V
PWR_ONOFF_1
R1106
12K
R1105
1K
Q1101
C3875
R1107
15K
C1198
*
LED1
SAM2333
R1114
220
5V_B
C1200
470U/16V(DIP)
12V
C1209
470U/35V(KMG)
LED4
SAM2333
R1115
220


AUDIO DELAY
REG_5V
L4003
B-601(3216)
5V_B
L4000
B-601(3216)*
C4004
10U/35V(MVK)
C4024
100U/16V(MVK)
C4008
0.1U
AK4525
IC4002
VREFH AINR+ AINR- AINL+ AINL- VA AGND XTI XTO DIF0 DIF1 LRCK SCLK SDTI
VCOM AOUTR AOUTL CMODE PDN DGND VD MCKO M/S TST DEM1 DEM0 SMUTE SDTO
SPK_R_DELAY
SPK_L_DELAY
C4001
10U/35V(MVK)
R4002
470
R4000
100K
R4003
470
C4002
10U/35V(MVK)
R4001
100K
C4005
2200P
C4006
2200P
C4012
4.7U/35V(MVK)
C4009
0.1U
C4010
0.1U
C4013
4.7U/35V(MVK)
C4011 0.1U
X4000
12.288MHz
C4003
15P
C4007
15P
R4008 0
R4009 *
R4010 0
R4011 *
R4005 47
R4006 47
R4007 *
GND_D
R4027
3K
C4015
10U/35V(MVK)
C4017
0.1U
R4033
470
R4032
470
SPK_R
SPK_L
R4021 *
R4022 0
R4020 1K
C4022
4.7U/35V(MVK)
C4016
0.1U
R4013 *
R4014 *
R4015 0
R4016 0
R4017 *
R4018 *
R4019 0
R4023 0
R4024 47
R4100
0(RH/RT ONLY)
R4101
0(RH/RT ONLY)
SPK_R_DELAY
SPK_L_DELAY
SPK_DELAY_2.5
C4000
0.1U
OEb VCC A GND Y
R4004 47
HD74LV1G125A
IC4000
C4014
0.1U
R4012
47
HD74LV1G125A
IC4003
C4018
0.1U
R4025
47
HD74LV1G125A
IC4004
C4019
0.1U
IC4005
SDI LRI BCK COUNT[1] VSS COUNT[2] VDD SDO
NJU26901
C4020
0.1U
R4026
47
HD74LV1G125A
IC4006
L4001
B-601(3216)
5V_B_LIP
C4023
4.7U/35V(MVK)
C4021
0.1U
R4028 *
R4029 *
R4030 *
R4031 *
COUNT[1]
COUNT[0]


AUDIO AMP
24V
SPK_R
C109
0.01U
R129
*
C112
4.7U/50V(DIP)
R131
(30")5.6K(26")5.6K(23")8.2K
30"/32" LIP 8.2K
C122 10P
R137 82K
R133
100K
R135
100K
C119
10U/16V(DIP)
C124
470U/35V(KMB)
C117
5600P
C114
2.2U
C118
0.1U
MP87720
IC101
C125
1U(3216)
C126
0.1U
5.2VZ
D105
R139
10K
L105
33UH(DIP)(4A UP)
D101
SS14
C130
0.22U/50V(MPE)
C133
470U/35V(KMB)
C134
470U/35V(KMB)
R140
39
R142
39
R144
39
R146
39
C135
0.1U
JP39
JP36
NC
NC
P105
SPK R_OUT
SPK R
24V
D102
KDS181
R106
150
R124
150
C108
47U/50V(DIP)
R107
150K
Q101
A1504Y
C107
2.2U
D103
KDS181
AMP_MUTE
R126
15K
R125
4.7K
Q100
C3875
R127
3.3K
24V
C121 10P
R136 82K
R132
100K
R134
100K
C120
10U/35V(DIP)
C123
470U/35V(KMB)
C116
5600P
C113
2.2U
C115
0.1U
MP87720
IC100
C125
1U(3216)
C127
0.1U
6.2VZ
D104
R138
10K
L104
33UH(DIP)(4A UP)
D100
SS14
C129
0.22U/50V(MPE)
C131
470U/35V(KMB)
C132
470U/35V(KMB)
R141
39
R143
39
R145
39
R147
39
C136
0.1U
JP37
JP38
P106
SPK L_OUT
SPK L
SPK_L
C110
0.01U
R128
*
C111
4.7U/50V(DIP)
R130
(30")5.6K,(26")5.6K,(23")8.2K
30"/32" LIP 8.2K


R253
(COMP)470K
R252
P)470K
L211
(COMP)B-60
L212
(COMP)B-60
1 3 2 4 6 5
5A/B
L
GND
R
GND
P_LR


CAUTION!!!
<PCB LAYOUT>

NORMAL:SHORT WITH SIGNAL
A/V JACK INPUT: OPEN

SIGNAL
1
3
4
6
2
GND
5
GND

SS70TC29A17.cir/021.sht

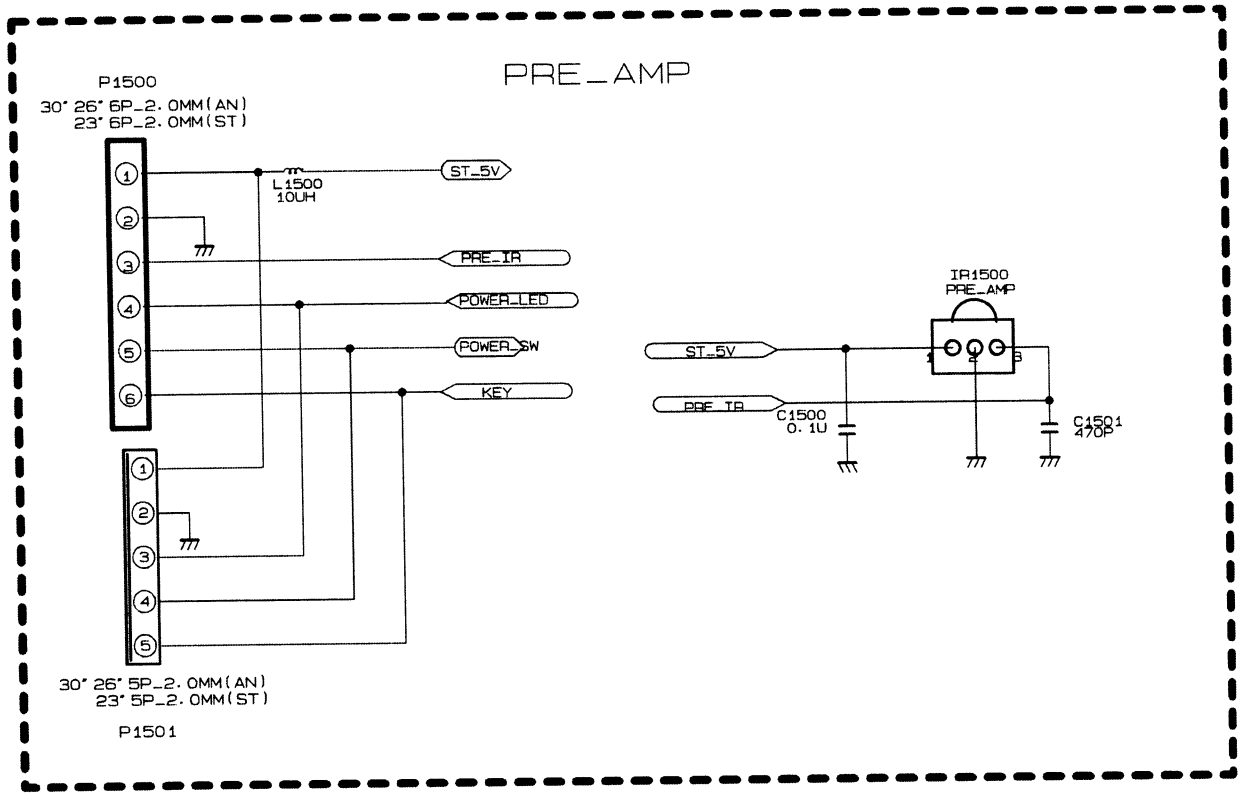
SCALE	UNIT	Date
	mm	
DSGD.	CHKD.	APPD.

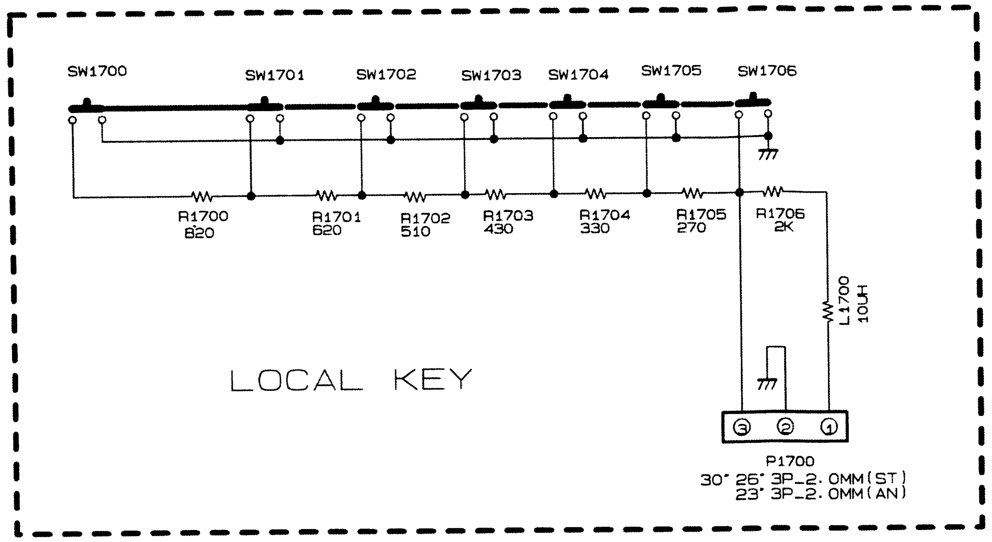
TITLE

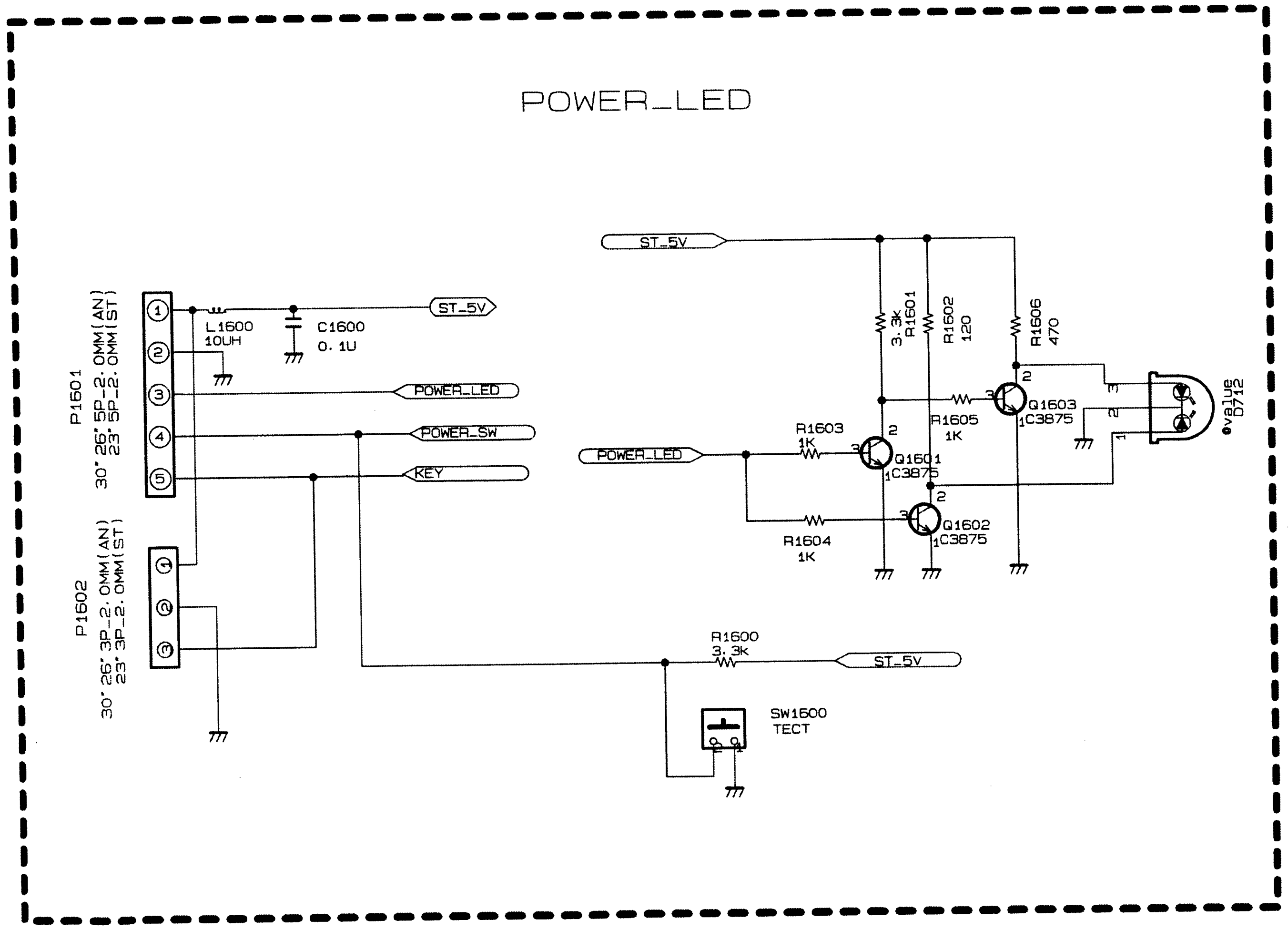
05/07/01 11:39:17

DWG NO.

ML041A
RZ-23/26/32LZ55

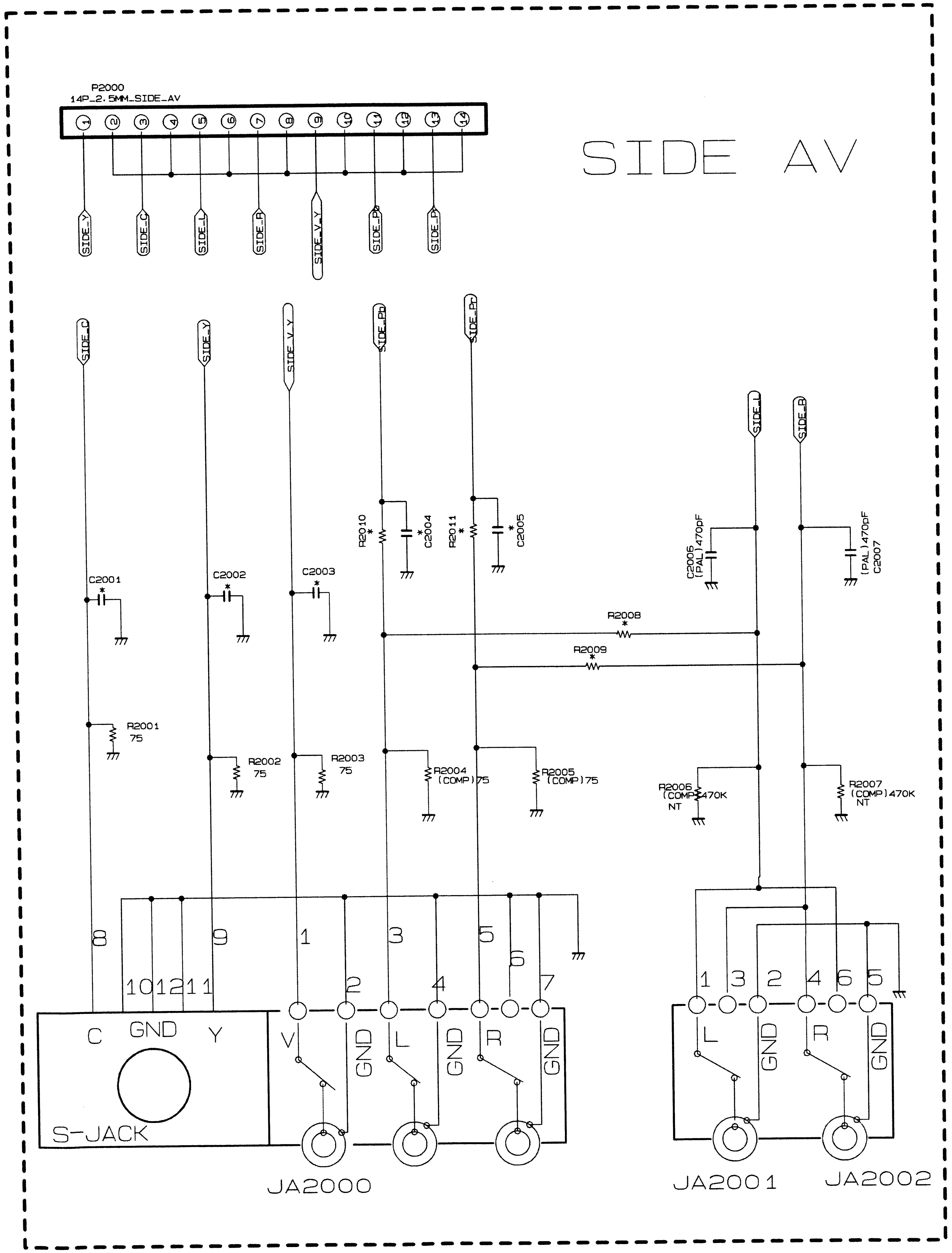

PRE_AMP
P1500
30" 26" 6P_2.0MM(AN)
23" 6P_2.0MM(ST)
L1500
10UH
ST_5V
PRE_IR
POWER_LED
POWER_SW
KEY
IR1500
PRE_AMP
ST_5V
PRE_IR
C1500
0.1U
C1501
470P
30" 26" 5P_2.0MM(AN)
23" 5P_2.0MM(ST)
P1501


SW1700
SW1701
SW1702
SW1703
SW1704
SW1705
SW1706
R1700
820
R1701
620
R1702
510
R1703
430
R1704
330
R1705
270
R1706
2K
L1700
10UH
LOCAL KEY
P1700
30" 26" 3P_2.0MM(ST)
23" 3P_2.0MM(AN)


POWER_LED
ST_5V
P1601
30" 26" 5P_2.0MM(AN)
23" 5P_2.0MM(ST)
L1600
10UH
C1600
0.1U
ST_5V
POWER_LED
POWER_SW
KEY
R1601
3.3K
R1602
120
R1606
470
Q1603
C3875
R1605
1K
R1603
1K
POWER_LED
Q1601
C3875
R1604
1K
Q1602
C3875
D712
blue
P1502
30" 26" 3P_2.0MM(AN)
23" 3P_2.0MM(ST)
R1600
3.3K
ST_5V
SW1600
TECT

ML041A_6DR.cir/001.sht

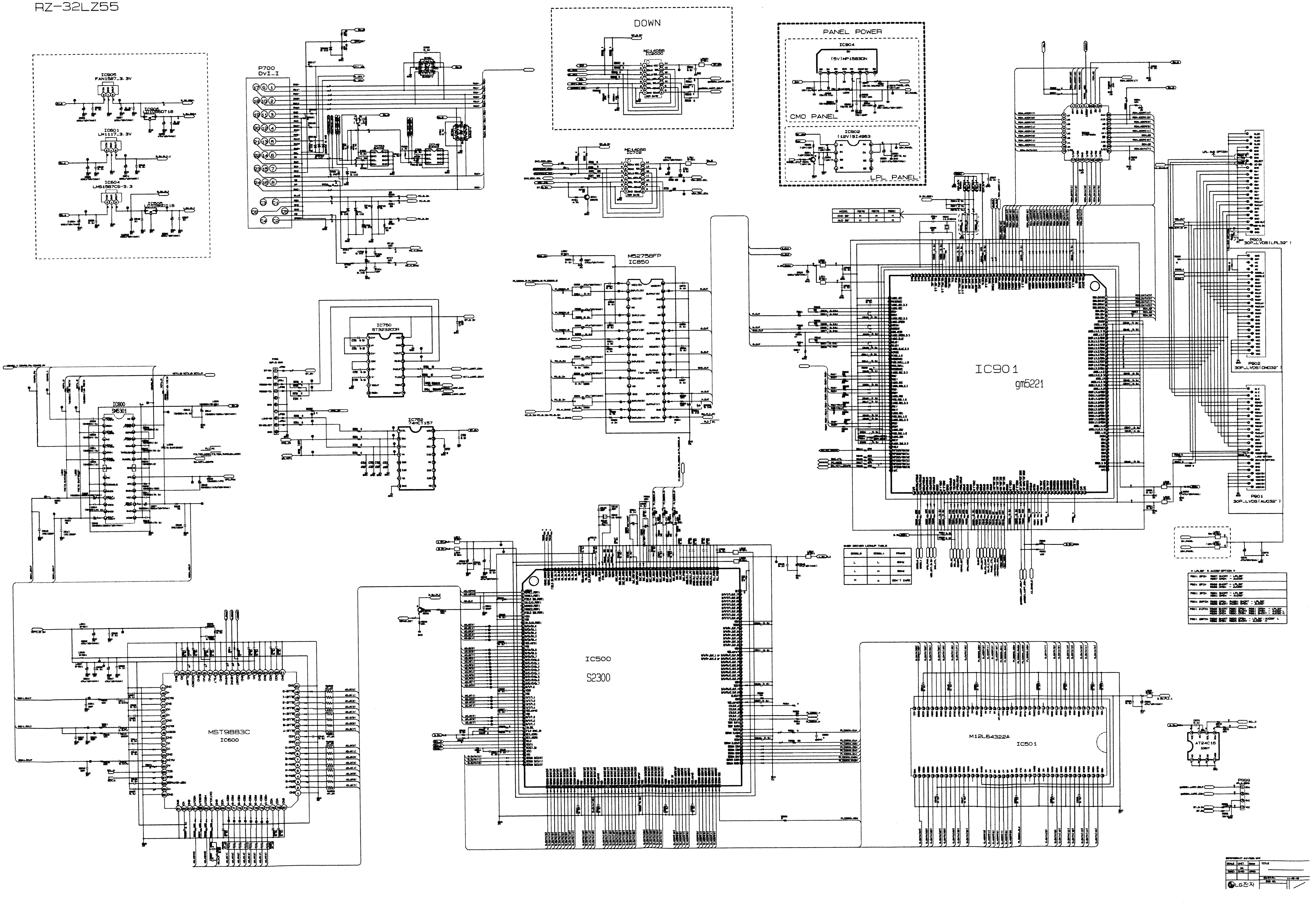
SCALE	UNIT	Date	TITLE
	mm		
DSGD.	CHKD.	APPD.	
			05/06/30 08:30:04
LG전자			DWG NO.


SIDE AV
P2000
14P_2.5MM_SIDE_AV
1
2
3
4
5
6
7
8
9
10
11
12
13
14
SIDE_Y
SIDE_C
SIDE_L
SIDE_R
SIDE_V_Y
SIDE_Pb
SIDE_Pr
SIDE_C
SIDE_Y
SIDE_V_Y
SIDE_Pb
SIDE_Pr
SIDE_L
SIDE_R
R2010
*
C2004
*
R2011
*
C2005
*
C2006
(PAL)470pF
(PAL)470pF
C2007
C2001
*
C2002
*
C2003
*
R2008
*
R2009
*
R2001
75
R2002
75
R2003
75
R2004
(COMP)75
R2005
(COMP)75
R2006
(COMP)470K
NT
R2007
(COMP)470K
NT
8
9
1
3
5
6
10
12
11
2
4
7
C
GND
Y
S-JACK
V
GND
L
GND
R
GND
JA2000
1
3
2
4
6
5
L
GND
R
GND
JA2001
JA2002

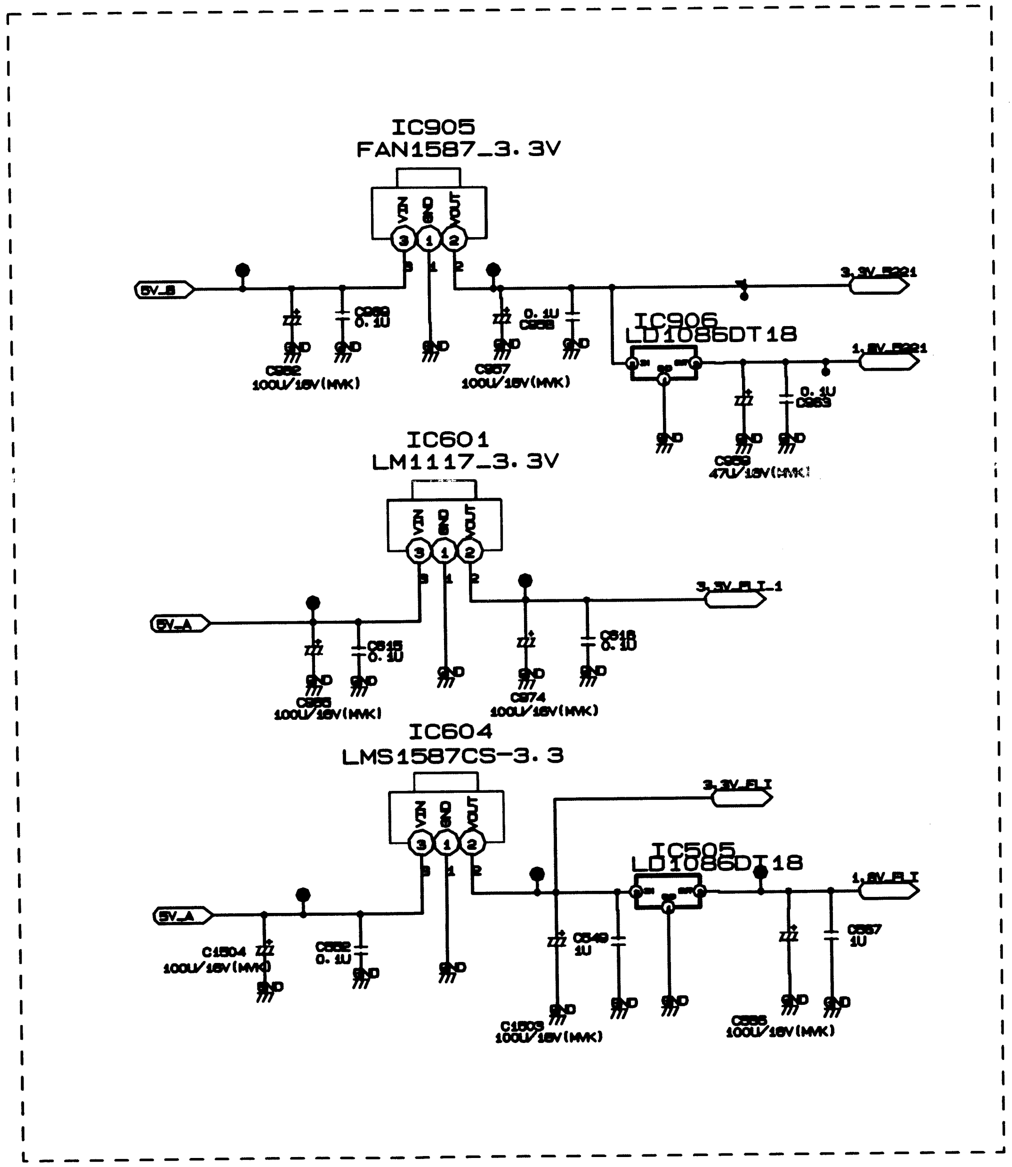
ML041A_6DR.cir/003.sht

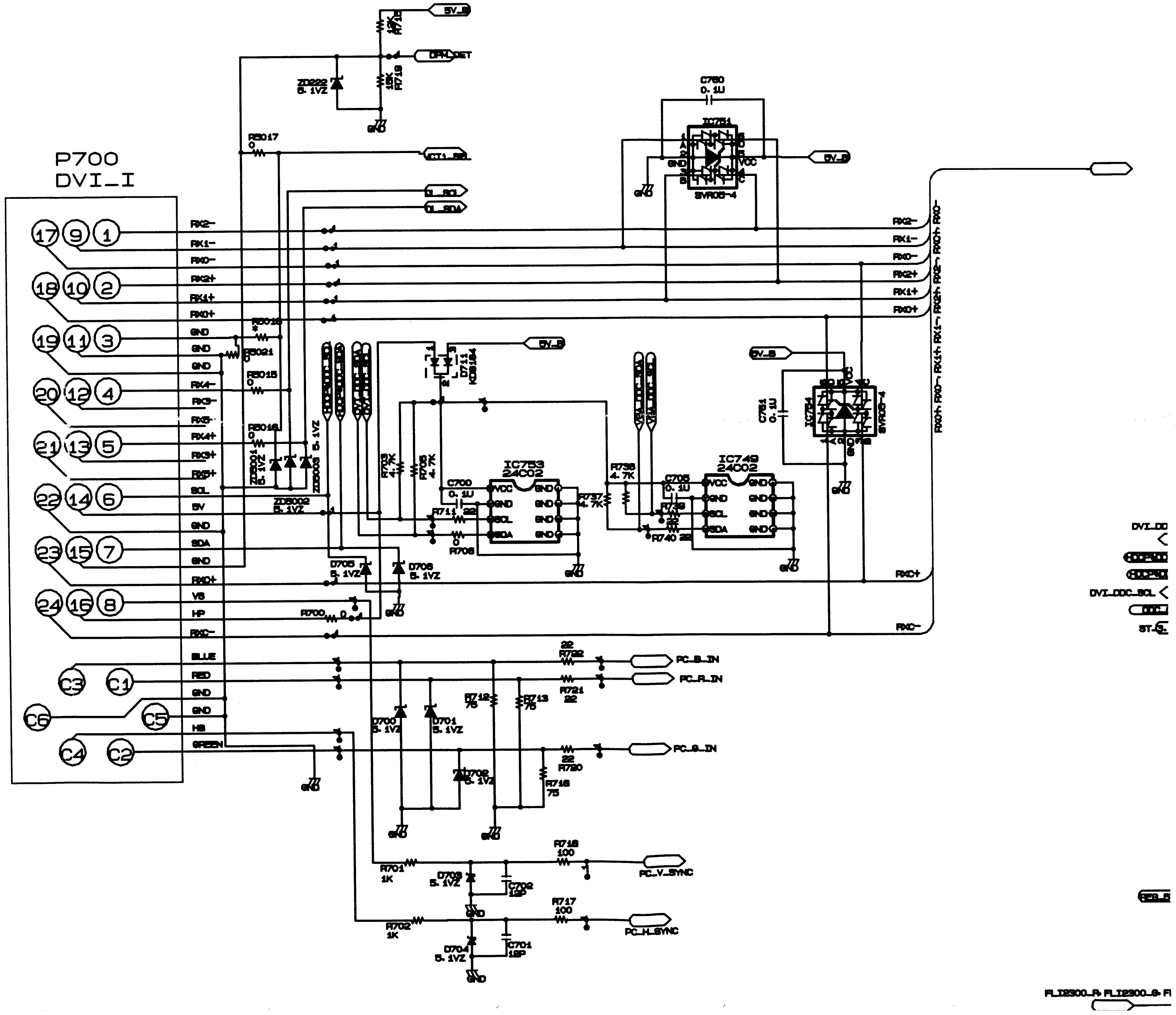
SCALE	UNIT	Date	TITLE
	mm		
DSGD.	CHKD.	APPD.	
			05/06/30 08:31:45
LG전자			DWG NO.

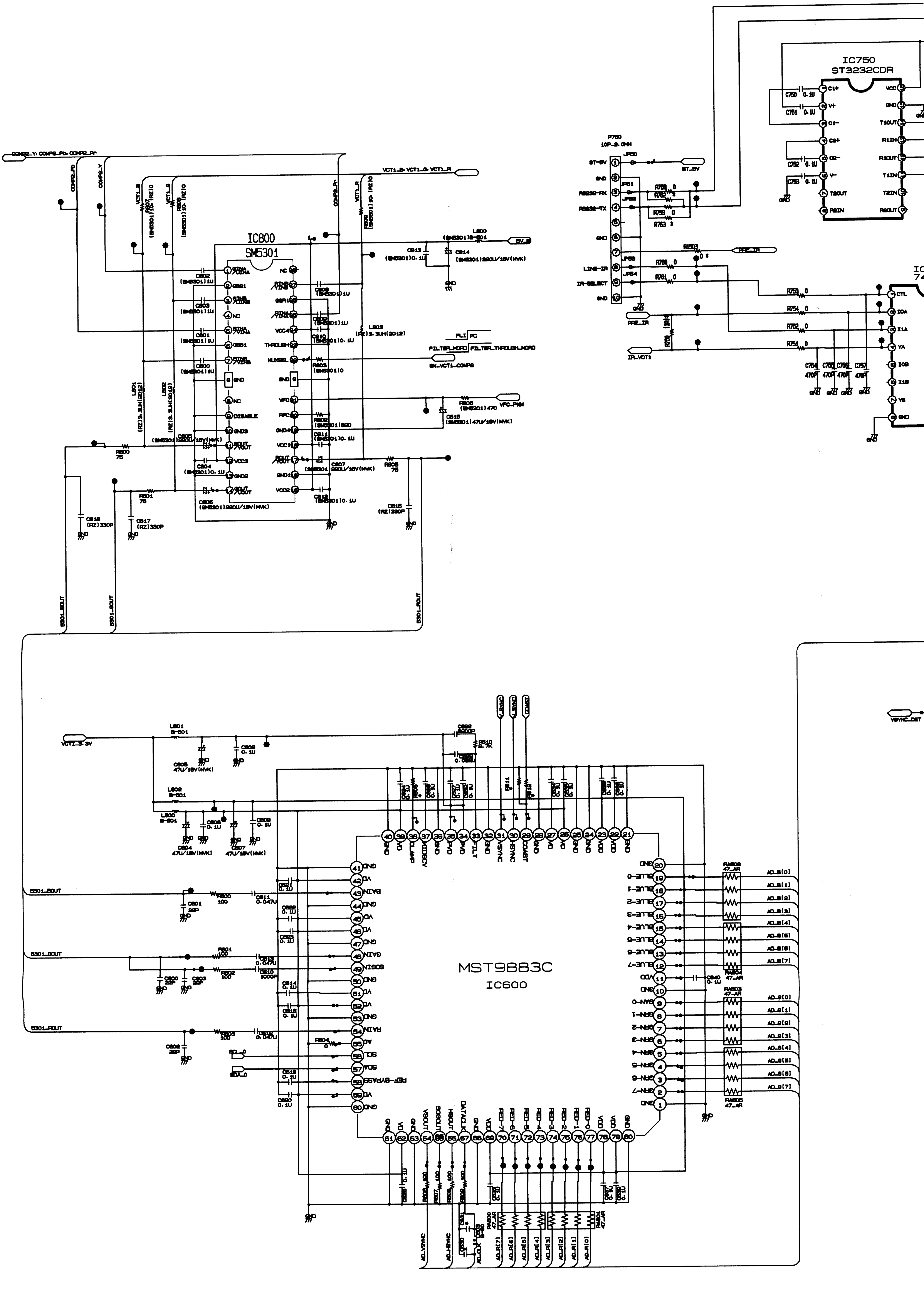
ML041A
RZ-32LZ55

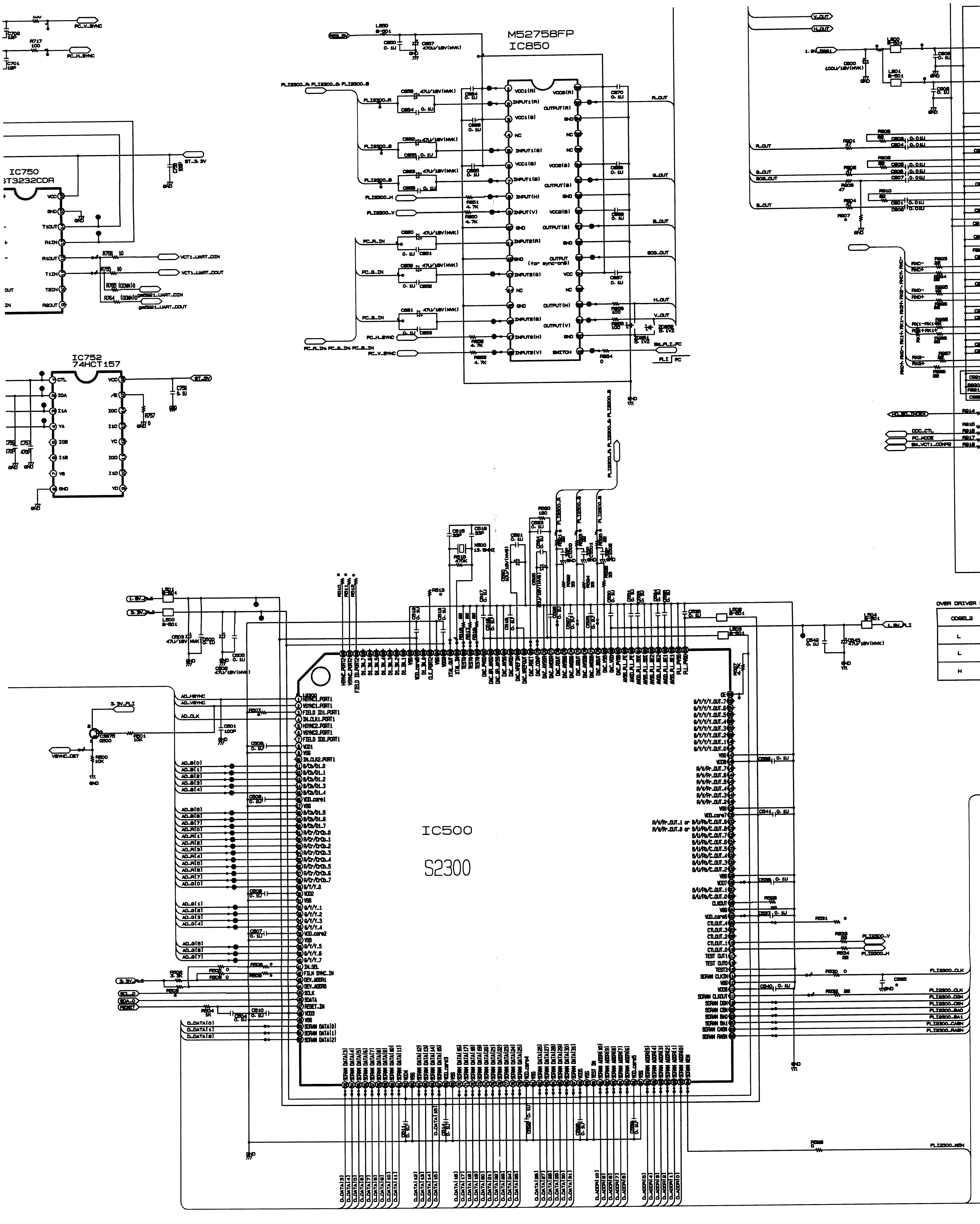

DOWN
MC14066
IC9000
PANEL POWER
IC904
(5V)MP1583DN
CMO PANEL
IC902
(12V)SI4963
LPL PANEL
IC905
FAN1587_3.3V
IC906
LD1086DT18
IC601
LM1117_3.3V
IC604
LMS1587CS-3.3
IC605
LD1086DT18
P700
DVI-I
MC14066
IC702
MODEL
CMO 32"
AUO 32"
H
IC750
ST3232CDR
IC752
74HCT157
M52758FP
IC850
IC800
SM5301
IC901
gm5221
P903
30P_LVDS(LPL32")
P902
30P_LVDS(CMO32")
P901
30P_LVDS(AUO32")
L
X
DON'T CARE
* LPL32" & AUO32" OPTION *
SHORT
OPEN
MST9883C
IC600
IC500
S2300
M12L64322A
IC501
AT24C16
IC507
P999
SCALE
UNIT
DSGD.
CHKD.
APPD.
TITLE
DWG NO.
LG전자

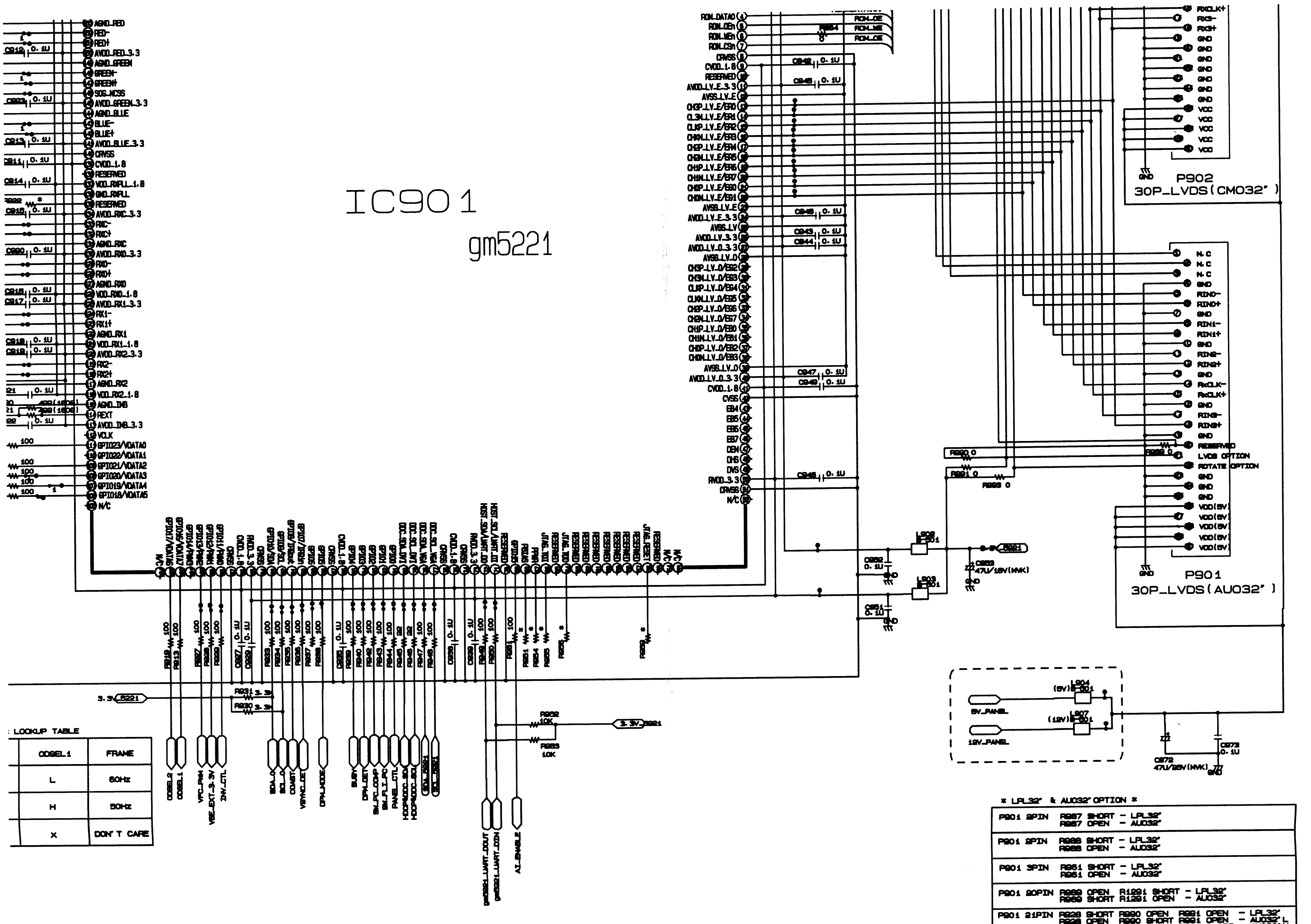
ML041A
RZ-32LZ55


IC905
FAN1587_3.3V
5V_S
3.3V_S221
IC906
LD1086DT18
1.8V_S221
C952 100U/16V(MVK)
C957 100U/16V(MVK)
C959 47U/16V(MVK)
C953 0.1U
IC601
LM1117_3.3V
5V_A
3.3V_FLI_1
C955 100U/16V(MVK)
C974 100U/16V(MVK)
IC604
LMS1587CS-3.3
3.3V_FLI
IC505
LD1086DT18
1.8V_FLI
C1504 100U/16V(MVK)
C1503 100U/16V(MVK)
C556 100U/16V(MVK)
VIN GND VOUT
GND


P700
DVI_I
5V_S
DPH_DET
ZD222 5.1VZ
R719
R5017
IC701
SVR05-4
C760 0.1U
RX2-
RX1-
RX0-
RX2+
RX1+
RX0+
RX4-
RX3-
RX5-
RX4+
RX3+
RX5+
SCL
5V
GND
SDA
RXC+
VS
HP
RXC-
BLUE
RED
GREEN
HS
D711 KDS184
IC753 24C02
IC749 24C02
IC754 SVR05-4
C761 0.1U
C700 0.1U
C705 0.1U
R703 4.7K
R705 4.7K
R736 4.7K
R737 4.7K
R711 22
R706
R739
R740 22
D705 5.1VZ
D706 5.1VZ
R700 0
R722 22
R721 22
R712 75
R713 75
R720 22
R716 75
D700 5.1VZ
D701 5.1VZ
D702 5.1VZ
PC_B_IN
PC_R_IN
PC_G_IN
R718 100
R701 1K
D703 5.1VZ
C702 12P
PC_V_SYNC
R717 100
R702 1K
D704 5.1VZ
C701 12P
PC_H_SYNC
ZD5001 5.1VZ
ZD5002 5.1VZ
ZD5003 5.1VZ
DVI_DD
DVI_DDC_SCL
ST_S
FLI2300_R FLI2300_G


IC750
ST3232CDR
C1+
V+
C1-
C2+
C2-
V-
T2OUT
R2IN
VCC
GND
T1OUT
R1IN
R1OUT
T1IN
T2IN
R2OUT
C750 0.1U
C751 0.1U
C752 0.1U
C753 0.1U
P750
10P_2.0MM
5V-SV
GND
RS232-RX
RS232-TX
GND
LINE-IR
IR-SELECT
GND
JP50
JP51
JP52
JP53
JP54
ST_5V
R758 0
R762
R759 0
R763
R1503
PRE_IR
R760 0
R761 0
R753 0
R754 0
R752 0
R751 0
R750
IR_VCT1
CTL
IDA
I1A
YA
I0B
I1B
YB
GND
C754 470P
C755 470P
C756 470P
C757 470P
COMP2_Y, COMP2_Pb, COMP2_Pr
VCT1_B, VCT1_G, VCT1_R
COMP2_Pb
COMP2_Y
VCT1_B
VCT1_G
COMP2_Pr
VCT1_R
IC800
SM5301
STNA/Y1INA
GSB1
STNB/Y1INB
NC
STNA/Y2INA
GSB1
STNB/Y2INB
GND
NC
DISABLE
GND3
BOUT/Y1OUT
VCC3
GND2
GOUT/Y2OUT
NC
STNB/Y1NB
GSR1
STNA/Y1NA
VCC4
THROUGH
MUXSEL
GND
VFC
RFC
GND4
VCC1
ROUT/Y3OUT
GND1
VCC2
L800
5V_B
C813 (SM5301)0.1U
C814 (SM5301)220U/16V(MVK)
FLI PC
FILTER_MORD FILTER_THROUGH_MORD
SW_VCT1_COMP2
R803 (SM5301)0
R806 (SM5301)470
VFC_PWM
C815 (SM5301)47U/16V(MVK)
R802 (SM5301)820
L801 (RZ)3.3UH(2012)
L802 (RZ)3.3UH(2012)
L803 (RZ)3.3UH(2012)
R800 75
R801 75
R805 75
C816 (RZ)330P
C817 (RZ)330P
C818 (RZ)330P
5301_BOUT
5301_GOUT
5301_ROUT
VCT1_3.3V
L601 B-601
L602 B-601
L600 B-601
C605 47U/16V(MVK)
C604 47U/16V(MVK)
C607 47U/16V(MVK)
C608 0.1U
C606 0.1U
C609 0.1U
C633 8200P
R610 2.7K
VSYNC
HSYNC
COAST
MST9883C
IC600
GND
VD
CLAMP
MIDSCV
PVD
FILT
VSYNC
HSYNC
COAST
BAIN
SOGIN
GAIN
RAIN
SCL
SDA
REF-BYPASS
BLUE-0
BLUE-1
BLUE-2
BLUE-3
BLUE-4
BLUE-5
BLUE-6
BLUE-7
VDD
GRN-0
GRN-1
GRN-2
GRN-3
GRN-4
GRN-5
GRN-6
GRN-7
VSOUT
SOGOUT
HSOUT
DATACLK
RED-7
RED-6
RED-5
RED-4
RED-3
RED-2
RED-1
RED-0
R600 100
R601 100
R602 100
R603 100
R604 0
C601 22P
C600 22P
C603 22P
C602 22P
C611 0.047U
C613 0.047U
C610 1000P
C612 0.047U
SCL_0
SDA_0
RA602 47_AR
RA604 47_AR
RA603 47_AR
RA605 47_AR
RA600 47_AR
RA601 47_AR
AD_B[0]
AD_B[1]
AD_B[2]
AD_B[3]
AD_B[4]
AD_B[5]
AD_B[6]
AD_B[7]
AD_G[0]
AD_G[1]
AD_G[2]
AD_G[3]
AD_G[4]
AD_G[5]
AD_G[6]
AD_G[7]
AD_R[7]
AD_R[6]
AD_R[5]
AD_R[4]
AD_R[3]
AD_R[2]
AD_R[1]
AD_R[0]
AD_VSYNC
AD_HSYNC
AD_CLK
R606 100
R607 100
R608 100
C640 0.1U
VSYNC_DET
GND


IC750
ST3232CDR
IC752
74HCT157
M52758FP
IC850
IC500
S2300
PC_V_SYNC
PC_H_SYNC
ST_3.3V
VCT1_UART_DIN
VCT1_UART_DOUT
gm5221_UART_DIN
gm5221_UART_DOUT
R_OUT
G_OUT
B_OUT
SOG_OUT
H_OUT
V_OUT
SW_FLI_PC
FLI / PC
FLI2300_R
FLI2300_G
FLI2300_B
FLI2300_H
FLI2300_V
PC_R_IN
PC_G_IN
PC_B_IN
PC_H_SYNC
PC_V_SYNC
VCC1(R)
INPUT1(R)
VCC1(G)
NC
INPUT1(G)
VCC1(B)
INPUT1(B)
INPUT(H)
INPUT(V)
GND
INPUT2(R)
INPUT2(G)
INPUT2(B)
INPUT2(H)
INPUT2(V)
VCC2(R)
OUTPUT(R)
VCC2(G)
OUTPUT(G)
VCC2(B)
OUTPUT(B)
OUTPUT (for sync-on-G)
VCC
OUTPUT(H)
OUTPUT(V)
SWITCH
X500 13.5MHz
1.8V_FLI
3.3V_FLI
AD_HSYNC
AD_VSYNC
AD_CLK
VSYNC_DET
Q500
SCL_0
SDA_0
RESET
D_DATA(0)
D_DATA(1)
D_DATA(2)
FLI2300_CLK
FLI2300_DQM
FLI2300_CSN
FLI2300_BA0
FLI2300_BA1
FLI2300_CASN
FLI2300_RASN
FLI2300_WEN
V_OUT
H_OUT
1.8V_FLI
R_OUT
G_OUT
SOG_OUT
B_OUT
HD_SEL_INDEX
DDC_CTL
PC_MODE
SW_VCT1_COMP2
OVER DRIVER
CDSEL_2
L
L
H
GND

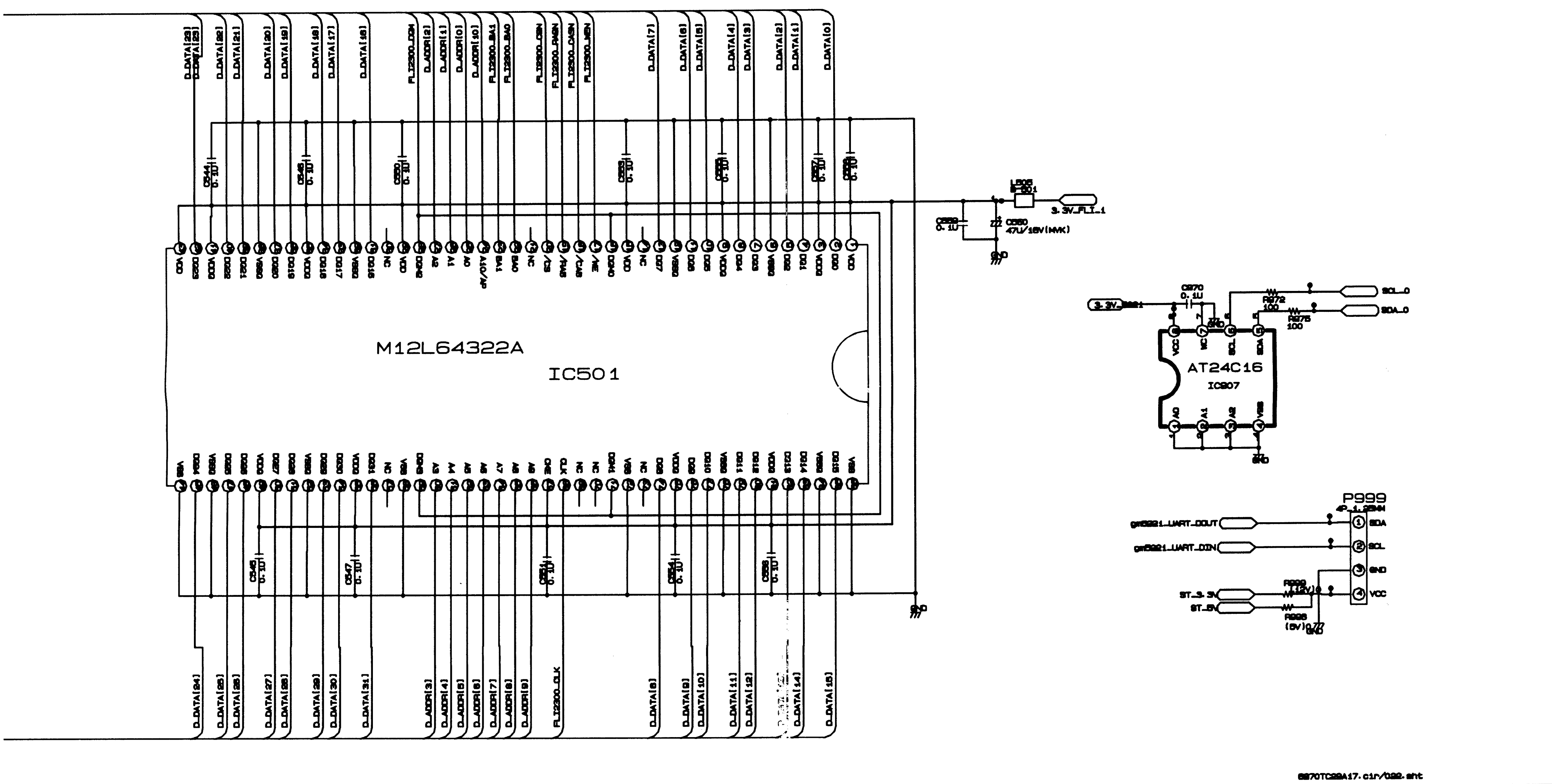

IC901
gm5221
P902
30P_LVDS(CM032")
P901
30P_LVDS(AU032")
5V_PANEL
12V_PANEL
3.3V_5221
gm5221_UART_DOUT
gm5221_UART_DIN
AI_ENABLE

LOOKUP TABLE

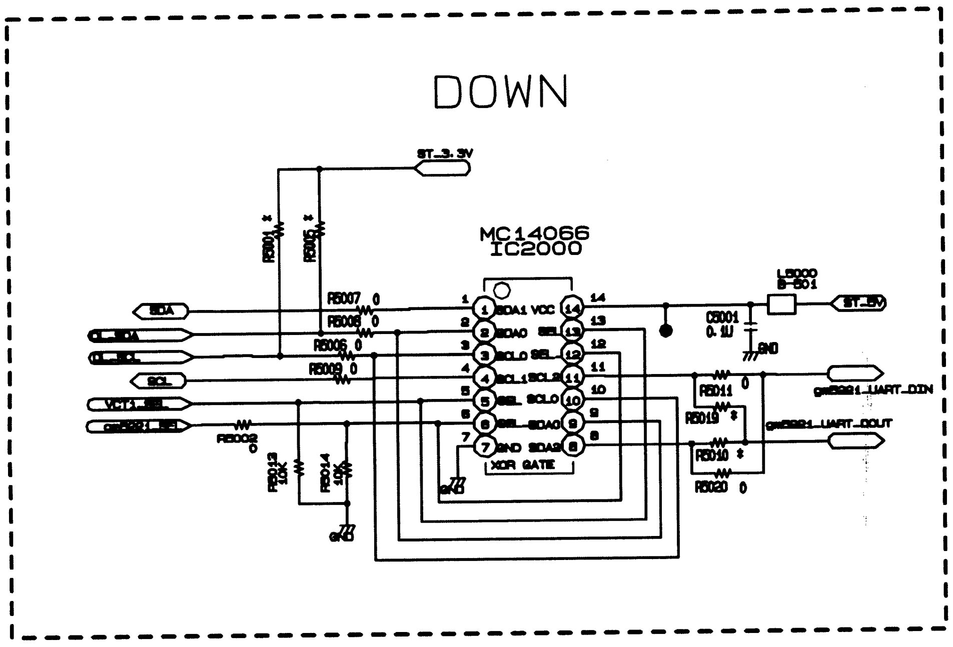
ODSEL1	FRAME
L	60Hz
H	50Hz
X	DON'T CARE

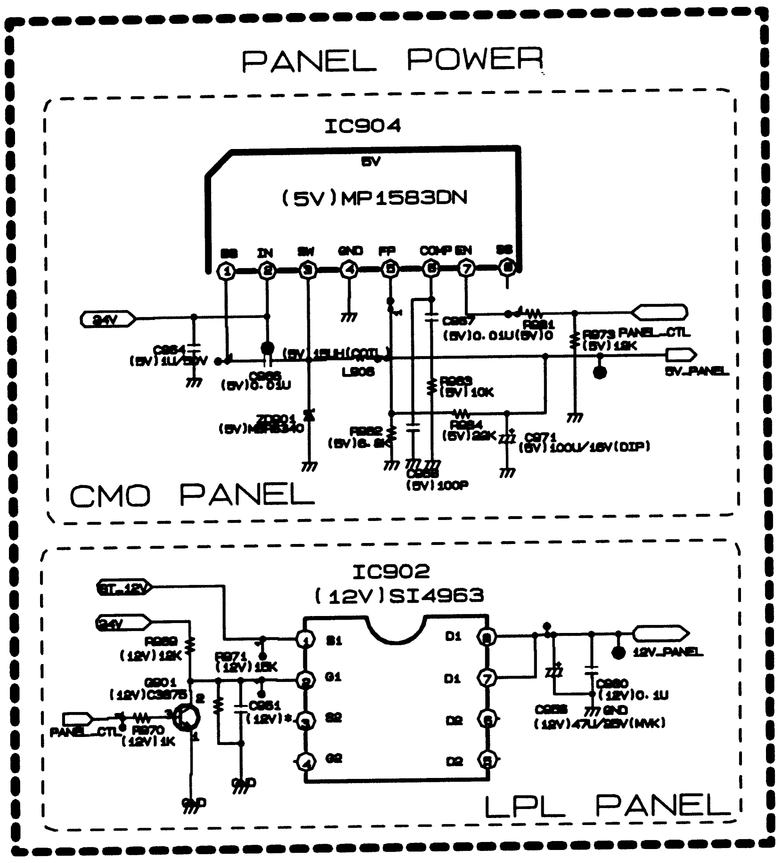
* LPL32" & AU032" OPTION *

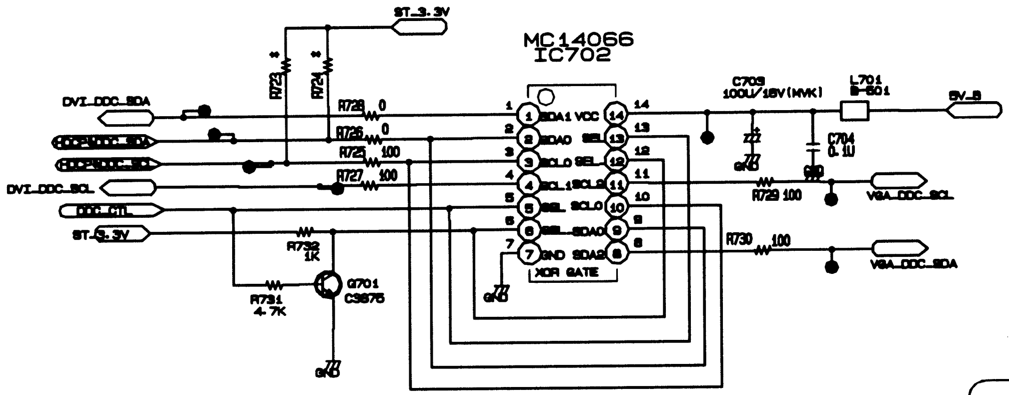
P901 2PIN	R967 SHORT - LPL32" R967 OPEN - AU032"
P901 2PIN	R988 SHORT - LPL32" R988 OPEN - AU032"
P901 3PIN	R961 SHORT - LPL32" R961 OPEN - AU032"
P901 20PIN	R989 OPEN R1291 SHORT - LPL32" R989 SHORT R1291 OPEN - AU032"
P901 21PIN	R928 SHORT R990 OPEN R991 OPEN - LPL32" R928 OPEN R990 SHORT R991 OPEN - AU032" L R928 OPEN R990 OPEN R991 SHORT - AU032" H
P901 22PIN	R992 SHORT R993 OPEN - LPL32", AU032" L R992 OPEN R993 SHORT - AU032" H


M12L64322A
IC501
AT24C16
IC907
P999
3.3V_FLT_1
SCL_0
SDA_0
ST_3.3V
ST_5V

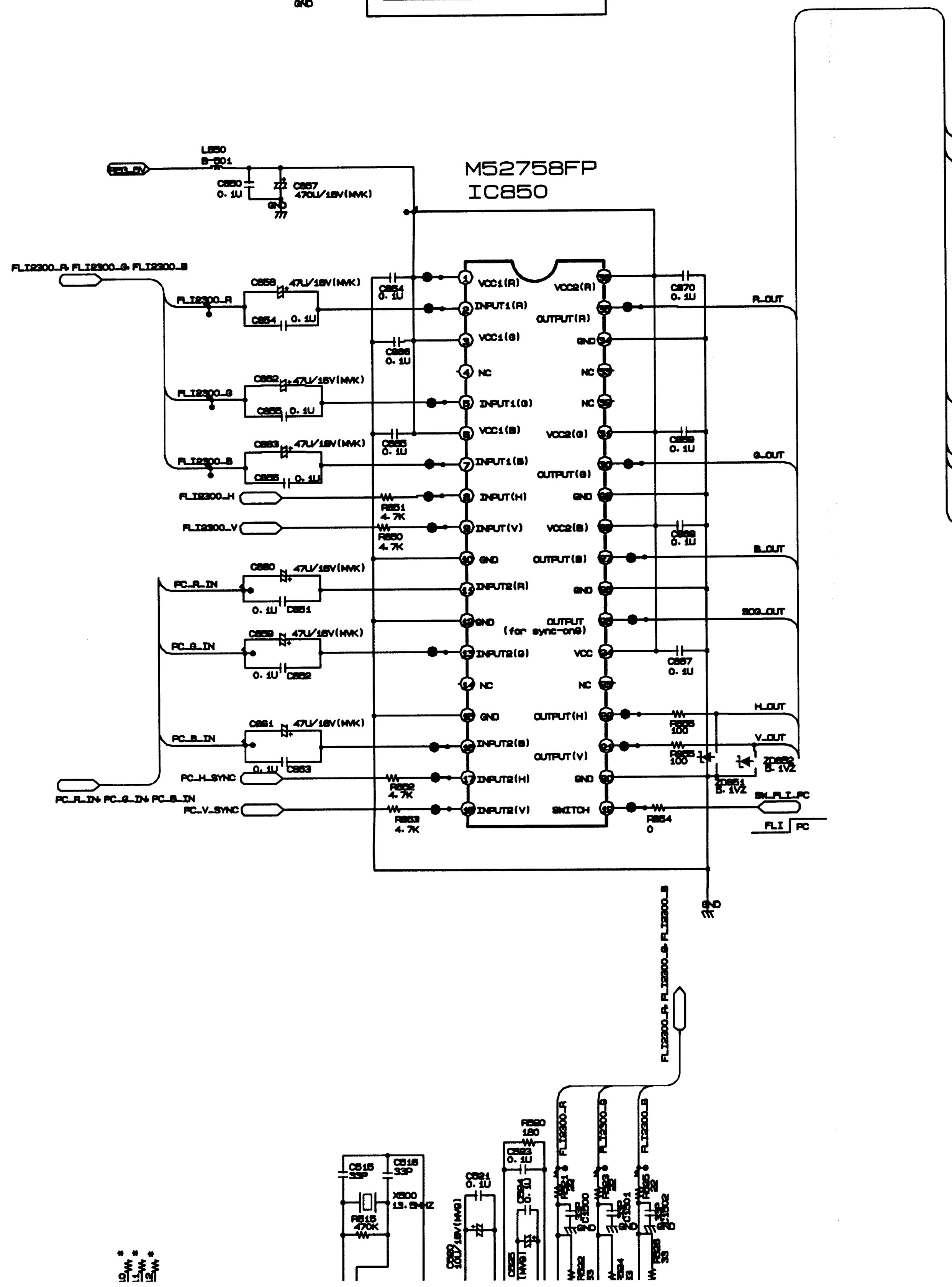
GS70TC29A17.cir/022.sht

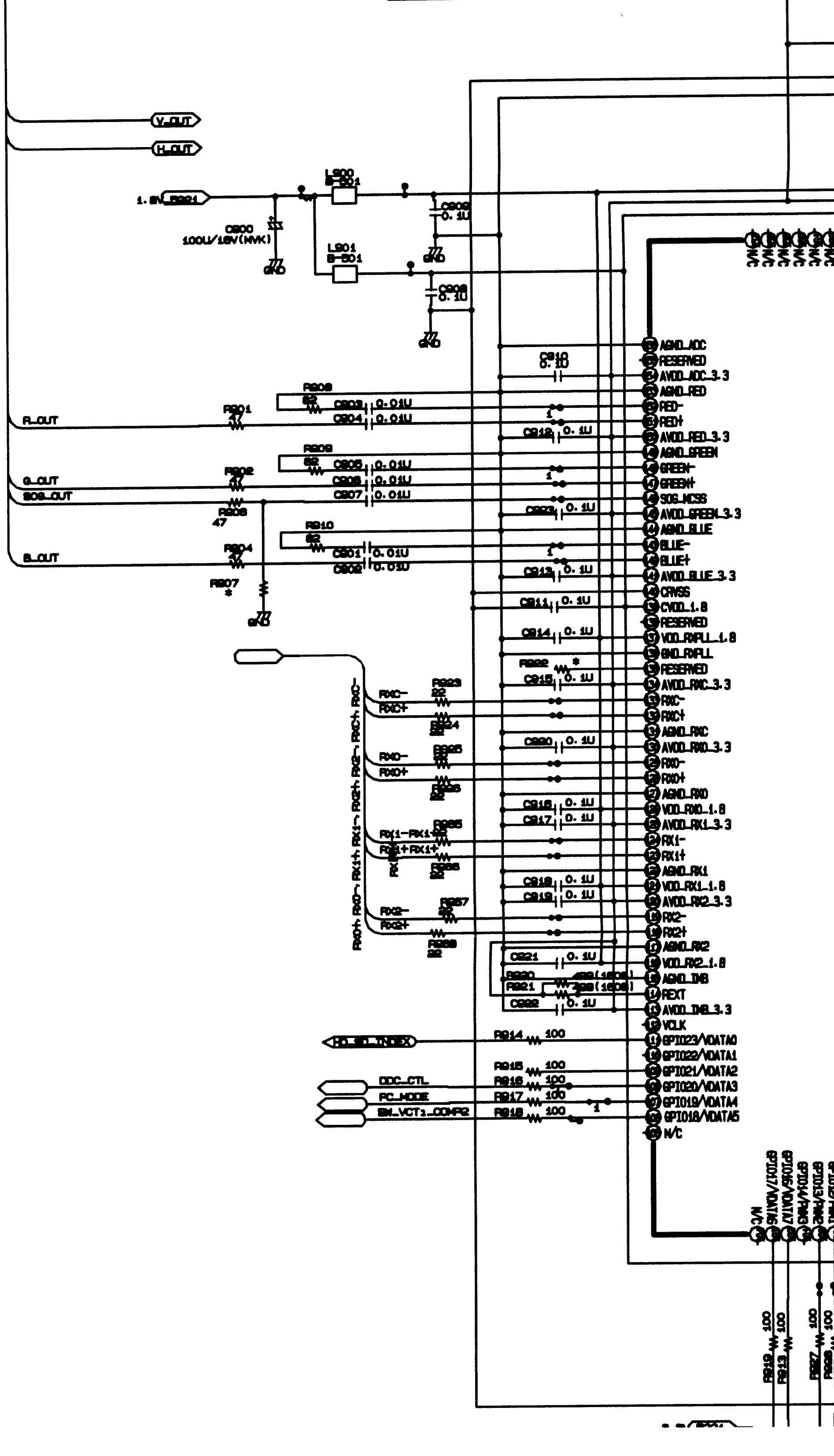

DOWN
ST_3.3V
MC14066
IC2000
SDA
SCL
VCT1_SEL
R5007 0
R5008 0
R5006 0
R5009 0
R5001
R5005
L5000
B-601
ST_5V
C5001
0.1U
GND
R5011 0
R5019
R5010
R5020 0
R5002 0
R5013 10K
R5014 10K
XOR GATE
gm5221_UART_DIN
gm5221_UART_DOUT

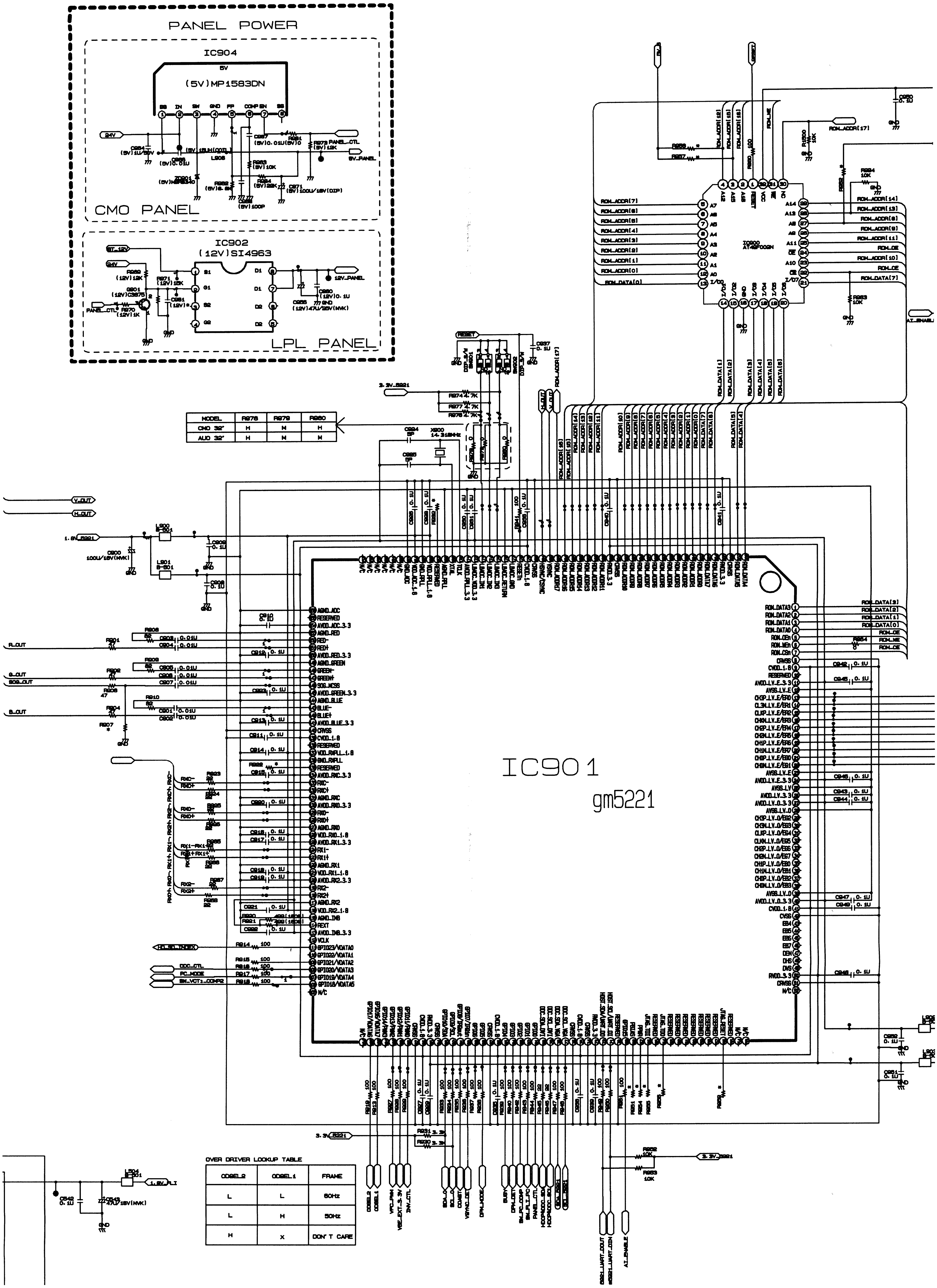

PANEL POWER
IC904
5V
(5V)MP1583DN
BS
IN
SW
GND
FB
COMP
EN
SS
24V
C984
(5V)1U/25V
C985
(5V)0.01U
(5V)15UH(COIL)
L908
ZD901
(5V)MBRS340
R982
(5V)8.2K
C988
(5V)100P
R983
(5V)10K
R984
(5V)22K
C987
(5V)0.01U
R981
(5V)10
R973
(5V)12K
PANEL_CTL
C971
(5V)100U/16V(DIP)
5V_PANEL
CMO PANEL
IC902
(12V)SI4963
ST_12V
R969
(12V)12K
R971
(12V)12K
Q901
(12V)C3875
R970
(12V)1K
C981
(12V)
S1
G1
S2
G2
D1
D2
12V_PANEL
C980
(12V)0.1U
C989
(12V)47U/25V(HVK)
GND
LPL PANEL


ST_3.3V
MC14066
IC702
R723
R724
DVI_DDC_SDA
DVI_DDC_SCL
DDC_CTL
ST_3.3V
R728 0
R726 0
R725 100
R727 100
C703
100U/16V(HVK)
L701
B-601
5V_S
C704
0.1U
R729 100
VGA_DDC_SCL
R730 100
VGA_DDC_SDA
R732
1K
R731
4.7K
Q701
C3875
XOR GATE
GND

MODEL	R978	R979	R980
CMO 32"	H	M	H
AUO 32"	H	M	M


M52758FP
IC850
REG_5V
L850
B-601
C860
0.1U
C857
470U/16V(HVK)
GND
FLI2300_R FLI2300_G FLI2300_B
FLI2300_R
FLI2300_G
FLI2300_B
FLI2300_H
FLI2300_V
C858
47U/16V(HVK)
C854
0.1U
VCC1(R)
INPUT1(R)
VCC1(G)
NC
INPUT1(G)
VCC1(B)
INPUT1(B)
INPUT(H)
INPUT(V)
GND
INPUT2(R)
INPUT2(G)
INPUT2(B)
INPUT2(H)
INPUT2(V)
VCC2(R)
OUTPUT(R)
VCC2(G)
OUTPUT(G)
VCC2(B)
OUTPUT(B)
OUTPUT (for sync-on)
VCC
OUTPUT(H)
OUTPUT(V)
SWITCH
R_OUT
G_OUT
B_OUT
SOG_OUT
H_OUT
V_OUT
PC_R_IN
PC_G_IN
PC_B_IN
PC_H_SYNC
PC_V_SYNC
PC_R_IN PC_G_IN PC_B_IN
R851
4.7K
R850
4.7K
R852
4.7K
R853
4.7K
R854
0
ZD851
5.1V2
ZD852
5.1V2
SW_FLI_PC
FLI
PC
GND
FLI2300_R FLI2300_G FLI2300_B
X500
13.5MHZ
R516
470K
C515
33P
C516
33P


V_OUT
H_OUT
1.8V_REG1
L900
B-601
L901
B-601
C900
100U/16V(HVK)
R_OUT
G_OUT
SOG_OUT
B_OUT
R901
R902
R904
R906
47
R907
R908
R909
R910
AGND_ADC
RESERVED
AVDD_ADC_3.3
AGND_RED
RED-
RED+
AVDD_RED_3.3
AGND_GREEN
GREEN-
GREEN+
SOG_MCSG
AVDD_GREEN_3.3
AGND_BLUE
BLUE-
BLUE+
AVDD_BLUE_3.3
CVSS
CVDD_1.8
RESERVED
VDD_RXPLL_1.8
GND_RXPLL
RESERVED
AVDD_RXC_3.3
RXC-
RXC+
AGND_RXC
AVDD_RX0_3.3
RX0-
RX0+
AGND_RX0
VDD_RX0_1.8
AVDD_RX1_3.3
RX1-
RX1+
AGND_RX1
VDD_RX1_1.8
AVDD_RX2_3.3
RX2-
RX2+
AGND_RX2
VDD_RX2_1.8
AGND_DVS
REXT
AVDD_DVS_3.3
VCLK
GPIO23/VDATA0
GPIO22/VDATA1
GPIO21/VDATA2
GPIO20/VDATA3
GPIO19/VDATA4
GPIO18/VDATA5
N/C
HD_BD_INDEX
DDC_CTL
PC_MODE
SW_VCT1_COMP2
R914 100
R915 100
R916 100
R917 100
R918 100
3.3V_S

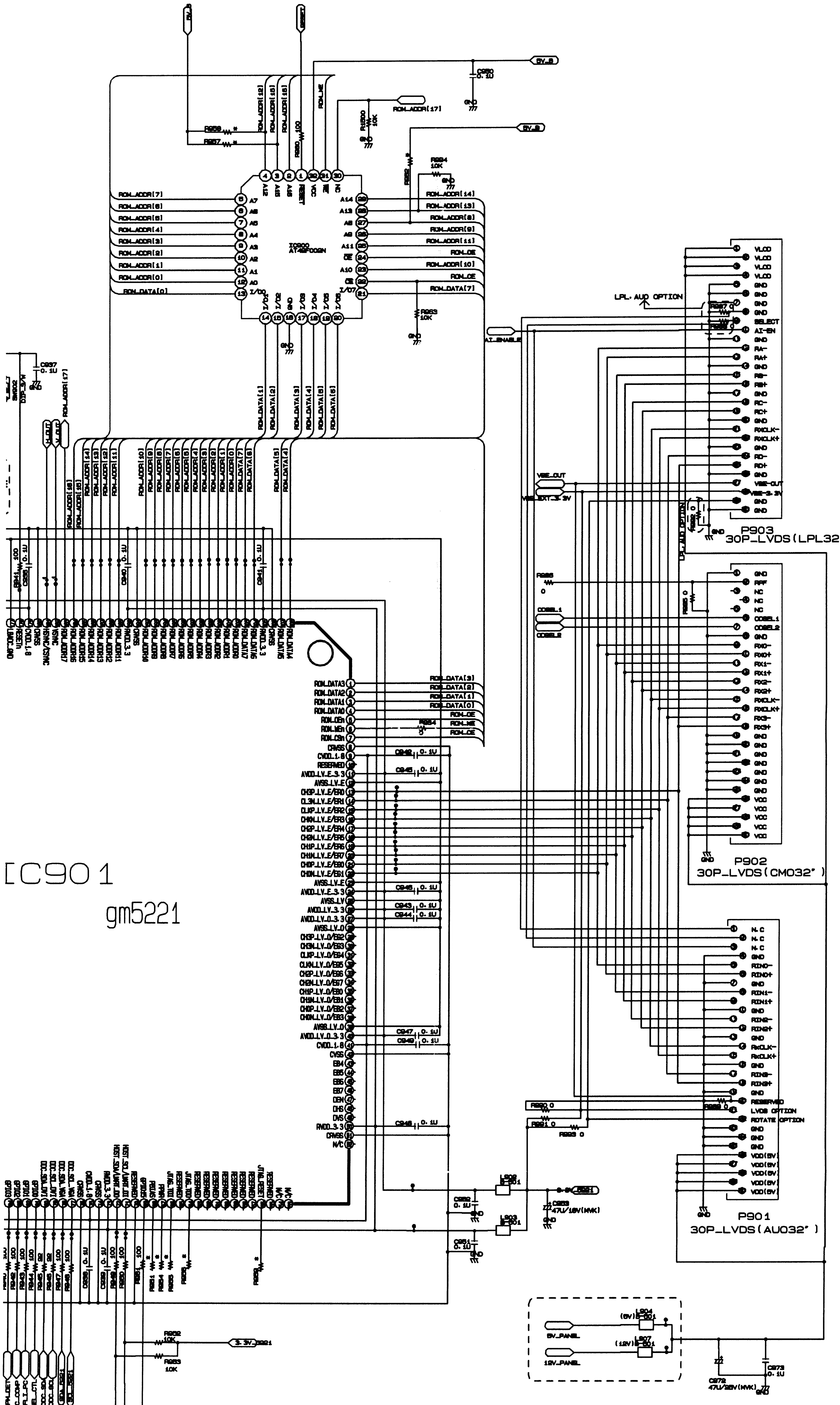


PANEL POWER
IC904
5V
(5V)MP1583DN
BS
IN
SW
GND
FB
COMP
EN
SS
24V
5V_PANEL
PANEL_CTL
CMO PANEL
IC902
(12V)SI4963
S1
G1
S2
G2
D1
D2
ST_12V
24V
12V_PANEL
PANEL_CTL
LPL PANEL
IC900
AT49F002N
RESET
3.3V_5221
X900
14.318MHz
V_OUT
H_OUT
1.8V_5221
R_OUT
G_OUT
SOG_OUT
B_OUT
HD_SD_INDEX
DDC_CTL
PC_MODE
SW_VCT1_COMP2
IC901
gm5221
3.3V_5221
1.8V_PLI
ODSEL2
ODSEL1
GND

MODEL	R978	R979	R980
CMO 32"	H	M	H
AUO 32"	H	M	M

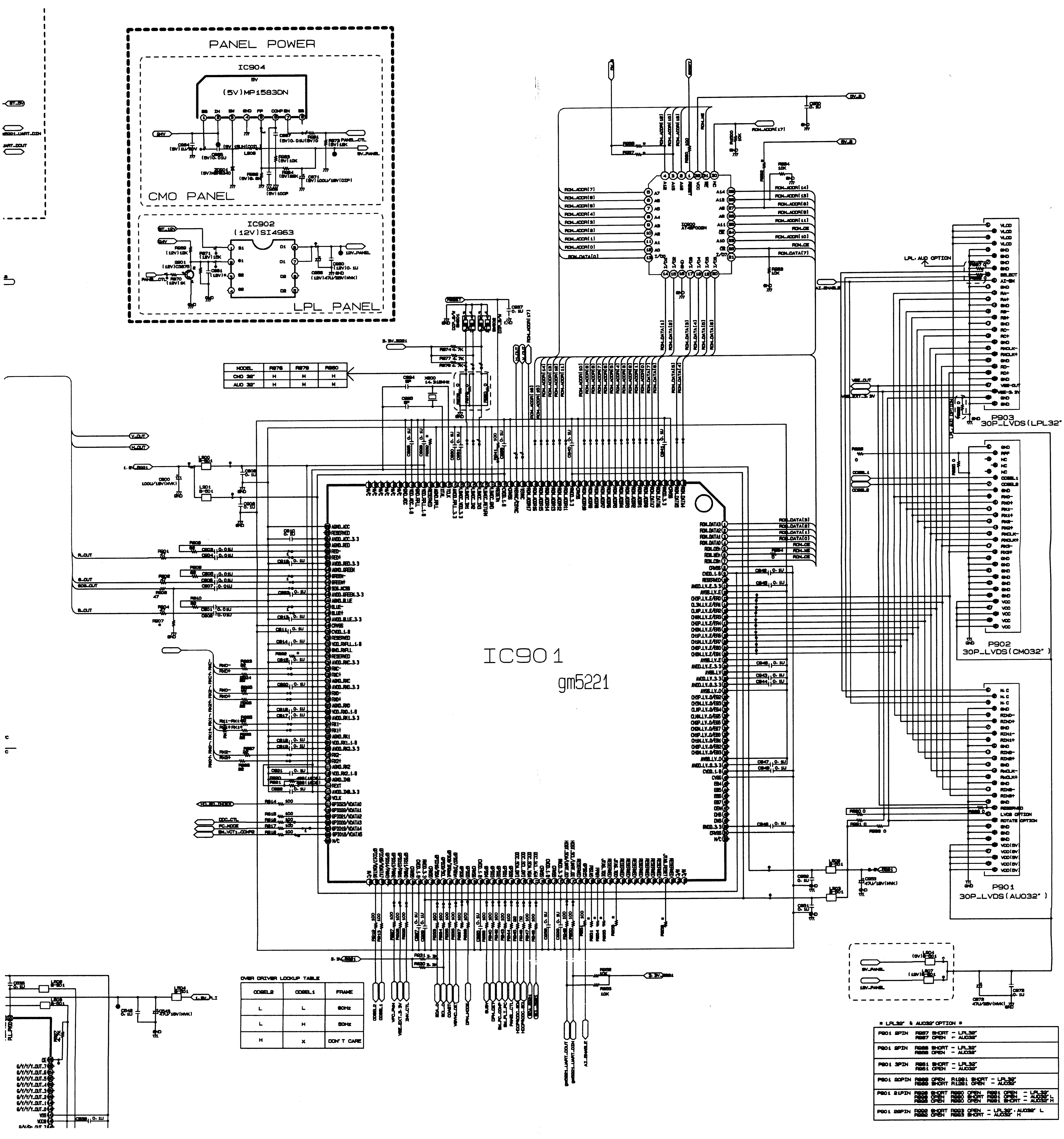
OVER DRIVER LOOKUP TABLE

ODSEL2	ODSEL1	FRAME
L	L	60Hz
L	H	50Hz
H	X	DON' T CARE


IC900
AT49F002N
5V_B
RESET
C950 0.1U
ROM_ADDR[17]
R1500 10K
R994 10K
R993 10K
ROM_ADDR[7]
ROM_ADDR[6]
ROM_ADDR[5]
ROM_ADDR[4]
ROM_ADDR[3]
ROM_ADDR[2]
ROM_ADDR[1]
ROM_ADDR[0]
ROM_DATA[0]
ROM_ADDR[14]
ROM_ADDR[13]
ROM_ADDR[8]
ROM_ADDR[9]
ROM_ADDR[11]
ROM_OE
ROM_ADDR[10]
ROM_CE
ROM_DATA[7]
AI_ENABLE
LPL-AUO OPTION
R987 0
R988 0
P903
30P_LVDS(LPL32")
VLCD
VLCD
VLCD
VLCD
GND
GND
GND
GND
SELECT
AI-EN
GND
RA-
RA+
GND
RB-
RB+
GND
RC-
RC+
GND
RXCLK-
RXCLK+
GND
RD-
RD+
GND
VEE-OUT
VEE-3.3V
GND
GND
VEE_OUT
VEE_EXT_3.3V
LPL_AUO OPTION
R986 0
R985 0
ODSEL1
ODSEL2
P902
30P_LVDS(CMO32")
GND
RFF
NC
NC
NC
ODSEL1
ODSEL2
GND
RX0-
RX0+
RX1-
RX1+
RX2-
RX2+
RXCLK-
RXCLK+
RX3-
RX3+
GND
GND
GND
GND
GND
GND
GND
VCC
VCC
VCC
VCC
VCC
P901
30P_LVDS(AUO32")
N.C
N.C
N.C
GND
RIN0-
RIN0+
GND
RIN1-
RIN1+
GND
RIN2-
RIN2+
GND
RxCLK-
RxCLK+
GND
RIN3-
RIN3+
GND
RESERVED
LVDS OPTION
ROTATE OPTION
GND
GND
GND
VDD(5V)
VDD(5V)
VDD(5V)
VDD(5V)
VDD(5V)
R990 0
R991 0
R992 0
R993 0
IC901
gm5221
L906
L903
C938 47U/16V(NVK)
5V_PANEL
12V_PANEL
L904 (5V)B-501
L907 (12V)B-501
C972 47U/25V(NVK)
C973 0.1U
GND
R902 10K
R903 10K
3.3V_5221
gm5221_UART_DOUT
gm5221_UART_DIN
AI_ENABLE

* LPL32" & AUO32" OPTION *

P901 2PIN	R987 SHORT - LPL32" R987 OPEN - AUO32"
P901 2PIN	R988 SHORT - LPL32" R988 OPEN - AUO32"
P901 3PIN	R961 SHORT - LPL32" R961 OPEN - AUO32"
P901 20PIN	R989 OPEN R1291 SHORT - LPL32" R989 SHORT R1291 OPEN - AUO32"
P901 21PIN	R928 SHORT R990 OPEN R991 OPEN - LPL32" R928 OPEN R990 SHORT R991 OPEN - AUO32" L R926 OPEN R990 OPEN R991 SHORT - AUO32" H
P901 22PIN	R992 SHORT R993 OPEN - LPL32" . AUO32" L R992 OPEN R993 SHORT - AUO32" H


PANEL POWER
IC904
(5V)MP1583DN
CMO PANEL
IC902
(12V)SI4963
LPL PANEL
IC900
IC901
gm5221
P903
30P_LVDS(LPL32")
P902
30P_LVDS(CMO32")
P901
30P_LVDS(AUO32")
5V_PANEL
12V_PANEL

MODEL	R878	R879	R880
CMO 32"	H	M	H
AUO 32"	H	M	M

OVER DRIVER LOOKUP TABLE

ODSEL2	ODSEL1	FRAME
L	L	60Hz
L	H	80Hz
H	X	DON' T CARE

* LPL32" & AUO32" OPTION *

P901 2PIN	R987 SHORT - LPL32" R987 OPEN - AUO32"
P901 2PIN	R988 SHORT - LPL32" R988 OPEN - AUO32"
P901 3PIN	R961 SHORT - LPL32" R961 OPEN - AUO32"
P901 20PIN	R989 OPEN R1291 SHORT - LPL32" R989 SHORT R1291 OPEN - AUO32"
P901 21PIN	R928 SHORT R990 OPEN R991 OPEN - LPL32" R928 OPEN R990 SHORT R991 OPEN - AUO32" L R928 OPEN R990 OPEN R991 SHORT - AUO32" H
P901 22PIN	R992 SHORT R993 OPEN - LPL32", AUO32" L R992 OPEN R993 SHORT - AUO32" H